AAS Job Register Editorial

Job Register Fee Change

The AAS Job Register has always had a 250 word limit per job announcement. This limit encourages the brief and informative description of jobs and greatly aids job seekers by limiting announcements to a reasonable length. In the past, we worked with institutions to edit their announcements to meet this limit, but this was always an inconvenience for both the AAS and the publishing institution.

Announcements beyond the 250 word limit can now appear, but will incur a $0.25 per word surcharge. It is understood that some announcements must be longer than 250 words and this fee was set low so as not to incur an undue financial penalty on these lengthy announcements.

The Job Register announcement base rate remains at a very low rate compared to comparable services provided by other professional societies. The AAS will continue to strive to maintain a low rate for the announcement of employment opportunities, which we feel is of significant benefit to the astronomical community and continues to secure the AAS Job Register's position as the number one source for astronomical employment opportunities.

Kevin B. Marvel
Executive Officer

Publication Policy for the AAS Job Register

Deadlines for submission

Job announcements may be submitted at any time and should be submitted well before the deadline so that any errors or difficulties can be resolved efficiently.

Job announcements must be received by the 15th and paid for by the 25th of each month for publication in the subsequent issue of the *Job Register*.

If payment is not received, then the announcement will not run in the next month's issue, but in the subsequent month's issue. We recommend that submission and payment be made well in advance of the monthly deadline.

Examples

- Submit and pay by 15 October - Announcement will appear in the November *Job Register*
- Submit and pay by 19 October - Announcement will appear in the December *Job Register*
- Submit by 15 October, but pay after that date but before December 1 - Announcement will appear in the December *Job Register*.

Rate Sheet

For rate information please see the job register submission form.

Employers must indicate how they will pay for their announcement at the time of submission.

We accept payment by:

Check, in US currency drawn on a US bank. VISA and MasterCard be sure to include expiration date.

Checks should be made payable to American Astronomical Society and sent to:

American Astronomical Society
Attention Job Register Payment
2000 Florida Ave., NW Suite 400
Washington, DC 20009-1231, USA

- Phone: 202-328-2010
- FAX: 202-234-2560

The AAS is a small, scientific, non-profit organization. The AAS Federal Identification number is 21-0735173.

In *very rare* circumstances a discount may be available for insitituions from developing countries. In all cases, a formal petition for a reduced fee must be sent by email or FAX to the Deputy Executive Officer Dr. Kevin B. Marvel requesting a discount and justifying the request.

In no case will the discount exceed a 50% reduction in the publishing fee or will discounts be available for more than one announcement per year.

Announcement Requirements

The word count limit per listing is 250 words. For longer ads, a $0.25 per word charge will be applied.

Jobs will not be published without the following:

1. Indication that the vacancy is *bona fide* and that the position has not been promised to anyone;
2. for first time publication, an application closing date that falls no earlier than the last day of the month of publication; and
3. a check or appropriate billing information as described above.

We encourage advertisers to provide URLs to relevant web sites with their job announcements or additional information (e.g. department homepage).

We also STRONGLY encourage employers to include in the postings information about benefits offered or to link to this information. This is especially important to clarify for post-doctoral or other non-permanent positions. We also encourage applicants to inquire and obtain a clear picture of the benefits at the time any offer is proffered.

Previously published position announcements may be re-published for additional months as long as the closing date is one month or more from the initial publication date of the job. Example: A job initially published in the January issue may be republished in the February issue and have a closing date in February.

The AAS *Job Register* cannot require overseas employers to comply with any U.S. regulations regarding employment discrimination.

Submission

All jobs should be submitted using the Web Submission Form or, if necessary, send your advertisement by electronic mail to jobs@aas.org. If electronic mail is not available, job announcements, with payment are also accepted by US mail, and by FAX at 202-234-2560.

AAS Postdoctoral Position Policy

The AAS Council has passed (1988) and reaffirmed (2003) a resolution stating that no postdoctoral position should require a candidate response prior to February 15 of each year. This policy applies to postdoctoral positions whose recruitment cycles follow the normal academic search timeline (offers in early spring to begin summer or fall of the same year). The text of this resolution is available on theCouncil Resolution webpage.

Employers should take this policy into account in their recruitment process.

Frequency and Circulation

The *Job Register* is published monthly. On the average, 60 new jobs are announced in each issue. Since the *Job Register* is freely available to anyone with Internet access, circulation numbers are hard to estimate. In February 2001, over 6,000 unique IP addresses accessed the *Job Register*.

Job Register statistics are published on the Career webpages and in the Annual Report of the Society in the *Bulletin of the American Astronomical Society*.

The *Job Register* is published on the Web at: http://members.aas.org/JobReg/JobRegister.cfm.

Member Notification

The AAS maintains a list of members that like to be notified when a New Job Register is posted. Members may be added to the *Job Register* email notice list by sending a message to address@aas.org.

Recent Job Postings

Notes

- Some jobs reposted from prior months may have closing dates during the current month. Readers shoud pay careful attention to the posted closing dates.
- Jobs marked as new were posted this month.

No. 25753 (New)
Einstein Fellowship Program
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street
MS #4
Cambridge, MA 02138
USA
Tel: 617-495-7146
FAX: 617-496-7577
Email Submission Address: nevans@cfa.harvard.edu
Email Inquiries: nevans@cfa.harvard.edu

Attention: Dr. Nancy Evans, Scientist

Einstein Postdoctoral Fellowships E-mail: fellows@head.cfa.harvard.edu WWW: http://cxc.harvard.edu/fellows/

Attention: Einstein Fellowship Program Office

On behalf of the NASA Astrophysics Division, the Chandra X-ray Center (CXC) is pleased to announce the annual competition for the Einstein Postdoctoral Fellowship Program, in cooperation with host institutions throughout the United States. The primary objective of the Program is to provide opportunities for postdoctoral research on problems that are broadly related to the scientific goals of the NASA Physics of the Cosmos program as addressed by any of the missions of this program. These include high energy astrophysics relevant to the Chandra, Fermi, XMM-Newton, and International X-ray Observatory (formerly Constellation-X) missions, cosmological investigations relevant to the Planck and JDEM missions, and gravitational astrophysics relevant to the LISA mission. This program is open to applicants of any nationality who earn doctoral degrees between January 1, 2007 and September 1, 2010 in astronomy, physics, or related disciplines. The Fellowships are tenable at any U.S.institution where Physics of the Cosmos related research can be carried out. The Fellowship is initially for two years, with the expectation of a third year, contingent upon performance and available funding. Subject to the availability of NASA funding up to 10 Einstein Fellows will be appointed this year, through grants to United States institutions.

The Call for Proposals for the Fellowship Program, which includes detailed Program policies and application instructions is available on the World Wide Web at http://cxc.harvard.edu/fellows/ . An application includes a cover form, a research proposal, letters of reference, a curriculum vitae, and other relevant materials as detailed in the instructions. Full instructions for submitting applications through the web are contained in the Call for Proposals.

The application deadline is November 5, 2009 (5:00 pm EST). The Einstein Fellow appointments are expected to begin on or about 1 September 2010. Women and members of minority groups are strongly encouraged to apply.

Benefits package is included.

No. 25778 (New)
Research Scientist: Fermi Science Support Center User Support Scientist
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
MailCode 660.8
Greenbelt, MD 20771

USA
Tel: 301-286-9563
FAX: 301-286-1681
URL1: CRESST Consortium Homepage *(http://cresst.umd.edu/)*
URL2: CRESST at UMBC *(http://jca.umbc.edu/csst/jobs/job09-001/index.shtml)*
Email Submission Address: virginia.c.peles@nasa.gov
Email Inquiries: chris.r.shrader@nasa.gov

Attention: Ms. Virginia Peles, Program Management Specialist

The Fermi Science Support Center at the NASA Goddard Space Flight Center in Greenbelt, MD, seeks applicants for the position of User Support Scientist. The Fermi Science Support Center (FSSC) is responsible for maintenance and support of the Fermi Gamma-Ray Space Telescope data analysis software, archive operations, distribution of science data products and related materials, mission scheduling and planning support, and support of all areas of guest investigator (GI) activity including management of the annual GI program. The FSSC consists of approximately 6 scientists and 6 scientific programmers.

The successful candidate will lead FSSC efforts in support of the GI program including all aspects of proposer support, management of proposal submission process and proposal review meetings, organization of Fermi data analysis workshops, and reporting to the Fermi Users Group on guest investigator activities. A rigorous program of independent scientific research in areas of direct significance to Fermi science is also expected.

Requirements for the position are an astrophysics PhD plus a minimum of 5 years of subsequent experience, demonstrable accomplishments of research in topics pertinent to Fermi science or high energy gamma ray astronomy documented by a record of journal publication, verbal and written communication skills and the ability to work as part of a large and diverse team. Candidates with user-support experience will be favored in the selection process. Data analysis skills and experience with mission- or discipline-specific astronomical software packages is a plus.

The FSSC User Support Scientist will be resident at the NASA Goddard Space Flight Center (GSFC) in Greenbelt Maryland, and employed by the University of Maryland, Baltimore County (UMBC) via the Center for Research and Exploration in Space Science and Technology (CRESST) cooperative agreement.

Position is full-time and includes full benefits. Salary is commensurate with qualifications and experience. For full consideration, submit a cover letter, resume, and contact information for three professional references by October 31, 2009, to Virginia Peles, Mail Code 660.8, NASA/GSFC, Greenbelt MD 20771, USA. The position will remain open until filled. For further information regarding this position, please contact Chris Shrader (Chris.R.Shrader@nasa.gov). For information on CRESST or UMBC, please contact Dr. Ian George (george@umbc.edu).

UMBC is an Equal Opportunity/Affirmative Action Employer

Full Health and Retirement benefits provided

No. 25693
ASSISTANT PROFFESOR IN DATA MINING COMPUTER SCIENCE DEPARTMENT - COLLEGE OF ENGINEERING
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE
Av. Vicuna Mackenna 4860
Macul
Santiago, Region Metropolitana 7820436
Chile
Tel: 56 2 3544440
URL1: http://dcc.puc.cl *(Computer Sciende Dept.)*
URL2: http://www.astro.puc.cl *(Astronomy and Astrophysics Dept.)*
URL3: http://www.ing.puc.cl/data-mining-position *(Faculty Position Information)*
Email Submission Address: vacantes-academicas@ing.puc.cl
Email Inquiries: marcos.sepulveda@ing.puc.cl

Attention: Dr. Marcos Sepúlveda, Head of Computer Science Department

The School of Engineering at Pontificia Universidad Católica de Chile offers a position in the Computer Science Department at the Assistant Professor level in the area of the Data Mining, or closely related disciplines, available immediately. The requirements are a Ph.D. degree (at the moment of assuming the position) and a demonstrated ability and commitment to excellence in independent research and teaching in the area of Mining Large Databases.

The successful candidate is expected to join a research group in machine intelligence and to participate in a new joint research center between the Faculty of Engineering and the Department of Astronomy and Astrophysics of the Faculty of Physics. This research center counts with state of the art computer clusters, able to match the increasing processing needs of current very large astronomical databases. This center has also a direct access to huge datasets coming from some of the most powerful telescopes in the world that are located in the north of Chile, and also from the upcoming Large Synoptic Survey Telescope (LSST).

While researchers in different related areas, such as machine learning, database, and astrophysics, are encouraged to apply, preference will be given to scientists working in areas related to data mining in large databases and analysis and interpretation of data from very large astronomical databases. Teaching duties are in computer science, at the undergraduate and graduate levels. Being able to teach in Spanish is desirable in the middle term, but is not a requirement to apply.

Applications later than August 31, 2009, should be considered until the position is filled.

No benefits information has been provided by the employer.

No. 25747 (New)
Faculty Position, Observational Astrophysics
UNIVERSITY OF ALBERTA
University of Alberta
Edmonton, Alberta T6G 2G7
Canada
Tel:
Email Submission Address: dept@phys.ualberta.ca

Attention: Dr. Frank Marsiglio, Acting Chair

The Department of Physics, University of Alberta (www.phys.ualberta.ca) invites applications for a tenure-track faculty position in observational astrophysics. We primarily seek candidates at the Assistant Professor level, but exceptional candidates at a more senior level will be considered. The successful candidate will contribute to the growth of observational astrophysics as an area of strength in the Department of Physics.

Applicants must have a PhD and demonstrate outstanding research potential and a commitment to teaching. The successful candidate will be expected to build a strong research program, supervise graduate students and teach physics at the undergraduate and graduate levels.

The Department of Physics has approximately 45 faculty and 120 graduate students, with research interests in astrophysics, particle physics, condensed matter

physics and geophysics. The astrophysics faculty consists of 12 members with research programs in relativistic astrophysics, x-ray astronomy, theoretical stellar astrophysics, gravity, cosmology, plasma physics, and space physics. Departmental facilities include excellent technical staff (computing, electronics, machine shop) and high performance computational infrastructure (see www.westgrid.ca).

Initiatives by the Government of Alberta and Canada provide exceptional opportunities for additional funding to establish new research programs at the University of Alberta. See, for example, www.albertaingenuity.ca, www.gov.ab.ca/sra, www.icore.ca, and www.innovation.ca for further information.

Interested applicants should submit a curriculum vitae, a research plan, and a description of teaching experience and interests. The applicant must also arrange to have at least three confidential letters of reference sent on or before December 1, 2009. Consideration of applications will begin by that date and continue until the position is filled. The start date for this position is July 1, 2010. Applications and reference letters should be sent (by regular mail or electronically) to the address below.

Astrophysics Search and Selection Committee Dr. Frank Marsiglio, Acting Chair Department of Physics, CEB 238 University of Alberta Edmonton, AB T6G 2G7

Email: dept@phys.ualberta.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

No benefits information has been provided by the employer.

No. 25748 (New)
Faculty Position in Astronomy - Modelling of Stellar and Circumstellar Media
CATHOLIC UNIVERSITY OF LEUVEN
Tel:
URL1: http://www.kuleuven.be/personeel/jobsite/vacatures/science.html *(Apply online for this position)*
URL2: http://fys.kuleuven.be/index_en.php *(Website department)*
Email Inquiries: desire.bolle@fys.kuleuven.be

Attention: Désiré Bollé

Faculty position in Astronomy

A permanent faculty position is available at the Institute of Astronomy of the Department of Physics and Astronomy of the University of Leuven, Belgium starting October 1, 2010 in the field of astronomy, more specifically modelling of stellar and circumstellar media. More information can be found on the web: http://www.kuleuven.be/personeel/jobsite/vacatures/science.html

Closing date: September 30, 2009

The K.U.Leuven is an equal opportunity employer. Non-Dutch speaking candidates should be able to teach in Dutch within three years.

No benefits information has been provided by the employer.

No. 25764 (New)
Faculty Position in Particle Astrophysics
IOWA STATE UNIVERSITY
Dept. of Physics & Astronomy
12A Physics Hall
Ames, IA 50011-3160
USA
Tel: 515-294-5441
FAX: 515-294-6027
URL1: http://www.physastro.iastate.edu/ *(Dept Home page)*
URL2: http://veritas.sao.arizona.edu/ *(VERITAS Observatory home page)*
URL3: www.agis-observatory.org *(AGIS home page)*
Email Submission Address: gloria@iastate.edu
Email Inquiries: gloria@iastate.edu

Attention: Gloria Oberender, Dept. Secy.

The Dept of Physics & Astronomy at Iowa State University invites applications for a tenure-track assistant professorship in particle astrophysics to begin August 2010.

ISU is currently involved in Very High Energy Gamma Ray Astrophysics, the VERITAS observatory and the development of future instruments such as AGIS. The successful candidate must have a PhD in physics or related field and is expected to lead a strong research program in particle astrophysics that relates to dark matter searches, the understanding of cosmic accelerators and the origin of cosmic rays. Furthermore, candidates are expected to have an established research record.

All candidates should demonstrate promise for excellence in teaching at both the undergraduate and graduate levels.

Please submit applications online at https://www.iastatejobs.com . Be prepared to attach a discussion of present and future research and teaching plans, a CV including a list of publications, and arrange for at least three letters of recommendation to be submitted. For best results convert to PDF to preserve document formatting.

Applications should reach us prior to October 15, 2009 to receive full consideration.

For questions regarding this vacancy please contact Joseph Shinar, Dept. Chair at jshinar@iastate.edu, or Frank Krennrich, Search Committee Chair at krennrich@iastate.edu.

All offers of employment, oral and written, are contingent upon the university's verification of credentials and other information required by federal and state law, ISU policies/procedures, and may include the completion of a background check.

Iowa State University is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minority candidates.

No benefits information has been provided by the employer.

No. 25785 (New)
Staff Astronomer
CARNEGIE OBSERVATORIES
813 Santa Barbara Street
Pasadena, CA 91101
USA
Tel: 626-304-0262
FAX: 626-304-0266
URL1: http://www.ociw.edu
Email Submission Address: staffsearch@ociw.edu
Email Inquiries: staffsearch@ociw.edu

Attention: Dr. Michael Rauch, Chair, Staff Astronomer Search Committee

The Carnegie Institution of Washington is expecting to make several staff astronomer appointments at its Observatories in Pasadena, California over the next few years. We are seeking outstanding candidates with observational, instrumental, theoretical or combined research interests in these fields. We are particularly interested in candidates with a record of distinguished scientific achievement in the following three areas: 1) Observational astronomers with a strong interest in pursuing major programs in stellar, galactic, or extragalactic astronomy with Carnegie's current and future facilities in Chile; 2) Instrumentalists with demonstrated experience designing and building optical/infrared instruments for large telescopes; and 3) Theorists with an interest in interacting closely with observational astronomers. These positions may be filled at any level and both junior and senior candidates are encouraged to apply.

Carnegie's observing facilities include the twin 6.5-meter Magellan telescopes, the 2.5-meter du Pont telescope and the Swope 1.0-meter telescope all at Las Campanas, Chile. Carnegie is also a leading partner in the Giant Magellan Telescope (GMT), a 25-meter class telescope currently scheduled for completion in 2019.

Applications should include a curriculum vitae, bibliography, and a research statement outlining the candidate's previous and future research interests. In addition, applicants should arrange for at least three letters of reference to be sent directly to The Observatories. All application materials must be received by January 8, 2010 and may be submitted via email to staffsearch@ociw.edu or in hard copy to the address above. Applicants who would like more information about these positions or have questions about the application process should send email to staffsearch@ociw.edu. The Carnegie Institution of Washington is an Equal Opportunity Employer.

Medical benefits are provided.

No. 25788 (New)
Faculty positions in Astrophysics and Physics
UNIVERSIDAD ANDRES BELLO
Departamento de Ciencias Fisicas
Avda. Republica 220
Santiago, RM 8370134
Chile
Tel: 562-661 8271
FAX: 562-661 8272
Email Submission Address: raros@unab.cl

Attention: Rodrigo Aros, Prof.

The Department of Physical Sciences at Universidad Andres Bello invites applications for 2 tenure-track positions at the Assistant Professor level, beginning as early as November 1, 2009 but not after August 1, 2010. Candidates should have a PhD in Astronomy or Physics and postdoctoral experience.

Successful candidates are expected to join the research and teaching activities of the Department of Physical Sciences and to strongly interact with our students. While researchers in all areas of astronomy and physics are encouraged to apply, preference will be given to candidates working in areas related to Department of Physical Sciences's interests which include: Supernova Physics, Galaxy and Structure Formation, Extragalactic Astronomy, AGNs, Gravity, String Theory and Computational Material Science. Further information can be obtained from Prof. Rodrigo Aros (raros@unab.cl).

Commitment to teach at both undergraduate and graduate level in physics and astronomy is required. The candidate is expected to be able to teach in Spanish within a year.

Applicants should submit a curriculum vitae, including a publication list, and short statements of research and teaching interests, and arrange for two letters of recommendation to be sent directly to Prof. Rodrigo Aros (raros@unab.cl) or by regular mail to Departamento de Ciencias Fisicas, Universidad Andres Bello, Avda. Republica 220, Santiago, Chile. The deadline is October 10, 2009 but applications will be considered until the positions are filled.

Universidad Andres Bello is an equal opportunity/affirmative action employer.

No benefits information has been provided by the employer.

No. 25795 (New)
Faculty position (W2Professor) in theoretical astrophysics
WUERZBURG UNIVERSITY, GERMANY
Tel:
URL1: www.physik.uni-wuerzburg.de
URL2: www.physik.uni-wuerzburg.de/aktuelles/jobboerse/stellenangebote/

Attention: faculty for physics and astronomy

Faculty position (W2Professor) in theoretical astrophysics Wuerzburg University

Astrophysics

The Julius-Maximilians-University Wuerzburg, Germany, seeks an outstanding theoretical astrophysicist for a W2-professor position in theoretical astrophysics (e.g., physical cosmology, computational astrophysics, relativistic astrophysics) at the faculty for physics and astronomy. Existing research programs of the faculty (www.physik.uni-wuerzburg.de) should be strengthened by pursuing complementary methods and research themes. Collaboration with the research training group "Theoretical Astrophysics and Particle Physics" and other cooperations with interdisciplinary research groups at Wuerzburg University are strongly encouraged. The teaching scope should encompass the entire field of astronomy and astrophysics.

Qualifications involve a University degree, pedagogical aptitude, PhD, "Habilitation" or equivalent proof of scientific achievements.

Applicants should in general not be older than the age of 52.

Applications should be submitted electronically until 23.10.2009 using the link http://www.physik.uni-wuerzburg.de/aktuelles/jobboerse/stellenangebote/ .

For further application procedure, please, contact the office of the dean: Fakultät für Physik und Astronomie, Universität Würzburg, Am Hubland, 97074 Würzburg, Germany.

No benefits information has been provided by the employer.

No. 25796 (New)
Faculty position (W2-Professor) in Space-Astrophysics
WUERZBURG UNIVERSITY, GERMANY
Tel:
URL1: www.physik.uni-wuerzburg.de
URL2: www.astro.uni-wuerzburg.de
URL3: www.physik.uni-wuerzburg.de/aktuelles/jobboerse/stellenangebote/

Attention: faculty for physics and astronomy

Faculty position (W2Professor) in theoretical astrophysics Wuerzburg University

Astrophysics

The Julius-Maximilians-University Wuerzburg, Germany, seeks an outstanding astrophysicist for a W2-professor position in space physics/astrophysics at the faculty for physics and astronomy. In research, the applicant should participate in astronomical satellite missions and cooperate with the research programs pursued at the chair for astronomy at Wuerzburg (http://www.astro.uni-wuerzburg.de). Qualifications involve a University degree, pedagogical aptitude, PhD, “Habilitation” or equivalent proof of scientific achievements.

Applicants should in general not be older than the age of 52.

Applications should be submitted electronically until 23.10.2009 using the link http://www.physik.uni-wuerzburg.de/aktuelles/jobboerse/stellenangebote/ .

For further application procedure, please, contact the office of the dean: Fakultät für Physik und Astronomie, Universität Würzburg, Am Hubland, 97074 Würzburg, Germany.

No benefits information has been provided by the employer.

No. 25811 (New)
Scientists
NORTH AMERICA ALMA SCIENCE CENTER (NAASC) - NATIONAL RADIO ASTRONOMY OBSERVATORY
Tel:
URL1: https://careers.nrao.edu

Attention: Human Resources Department

The North American ALMA Science Center (the NAASC) has openings for three Scientists to work in the area of advanced user support. The NAASC is headquartered at the National Radio Astronomy Observatory headquarters in Charlottesville, VA. ALMA, the Atacama Large Millimeter/Submillimeter Array, when inaugurated in 2012, will be the most powerful (sub)millimeter interferometer ever constructed, and will transform our understanding of topics ranging from the formation of nearby protoplanetary disks to the first galaxies at the earliest epochs of the Universe. Commissioning of the first ALMA antennas in Chile has commenced, in preparation for early science in 2011. The NAASC is currently under rapid expansion in preparation for its role in support of North American users through all stages of their ALMA research, from observing time application through data publication. These positions will be filled at the assistant, associate, or scientist level, depending on experience. Appointments will be made to either the tenure-track or the scientist track.

The successful candidates will be members of the NAASC team of scientists, and will provide advanced scientific and technical support to members of the North American ALMA user community. In addition, the successful candidates will have the opportunity to pursue a vigorous and independent research program. Each NAASC team member will provide support in some or all of the following areas: user support & training; workshop & tutorial planning; user documentation; and community outreach. The successful candidates will be expected to become proficient in the use of the ALMA end-user tools, and take the lead on one or more tools and/or area of ALMA expertise. There will be opportunities for moderate travel to Chile, including taking brief “turns” as Astronomer-on-Duty at the ALMA Observing Support Facility in northern Chile.

The successful candidates will have a demonstrated record of independent research in an area related to the goals of ALMA. A superior ability to communicate with the ALMA users, from novice to expert, is required, including direct assistance for visiting observers, on-line help, and teaching at workshops and tutorials.

Requirements include a PhD in astronomy, physics or a related field, and two years post graduate experience in astronomical observing and data processing. A strong background in observational astronomy, astrophysical processes, and data reduction techniques is preferred, particularly in radio/mm/submm interferometric observing techniques. Proficiency with one or more radio interferometric data processing languages such as CASA, AIPS, MIRIAD and GILDAS, would be advantageous, particularly CASA, which is the adopted environment for ALMA.

Interested applicants may apply online at https://careers.nrao.edu and should include a curriculum vitae, bibliography, cover letter, and statement of research interests with ALMA. Applicants should also arrange to have three reference letters sent directly to NRAO at naascposition@nrao.edu shortly after submitting their application materials. Please direct any inquiries to clonsdale@nrao.edu. Initial review of applicants will begin December 1, 2009; however, applications will be accepted through January 31, 2010. NRAO is an Equal Opportunity Employer – M/F/D/V.

Medical and dental insurance, retirement benefits, vacation and sick leave accrual.

No. 25814 (New)
Scientific Staff
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
URL1: http://www.stsci.edu/institute/sd/src.html ***(Job Announcement)***
Email Inquiries: careers@stsci.edu

Attention: Human Resources, Req 09-0060

SCIENTIFIC STAFF POSITIONS AT STScI

The Space Telescope Science Institute (STScI) expects to have one or more openings for scientists in the coming year. The primary qualifications we seek are excellence in research and/or technical ability to further the missions of the Institute, particularly with regard to the James Webb Space Telescope (JWST). Appointments can be made to either the tenure-track or the scientist-track, and at any level. Tenure-track astronomers spend 50% of their time in support of the science operations mission of the Institute and 50% of their time on personal research. Scientist-track astronomers spend up to 80% of their time in support of the science operations mission of the Institute with the remaining time used for independent astronomical research or supporting innovative projects. Tenure-track positions are recommended for those scientists wishing to pursue a strong, personal research program, while scientist-track positions may be preferred by scientists wishing to focus on mission-oriented or technology development projects.

Applications are encouraged from both junior and senior astronomers. Our professional environment is stimulating and facilitates independent research and scientific collaboration world-wide. STScI supports postdoctoral, graduate student and visitor programs, workshops and meetings, and has an excellent computer, technical, and library infrastructure.

The scientific staff help formulate the strategic goals of the Institute. They work in key areas including instrument, archive, and user support, observation planning and scheduling, and education and public outreach. In particular, STScI is the science operations center for the Hubble Space Telescope (HST) and will perform the same role for the JWST. Institute scientists are closely involved in the design and planning of JWST instruments and operations, in addition to collaborating with the community on concept and design studies for future NASA missions. The science staff also support calibration of the current suite of HST instruments and provide assistance to HST users in executing their research programs with the telescope.

Candidates for these positions must have a Ph.D. or equivalent degree in astronomy, physics, or planetary science, and have postdoctoral experience demonstrating a record of independent research or technical innovation. Salaries and benefits are commensurate with those of AURA member universities. STScI is committed to equal opportunity, and women and minorities are strongly encouraged to apply.

Application consists of submitting together: a letter of application, your curriculum vitae and bibliography, a brief statement how your research and functional interests would contribute to STScI's mission, and the names of three individuals who will write letters of reference on your behalf. The Announcement of Opportunity, which includes detailed program policies as well as instructions both for the applicants and for their referees, will be available at the website: http://www.stsci.edu/institute/sd/src.html

Applicants and referees must follow the instructions for uploading their materials using the STScI web interface as described in that Announcement. Applications received by Tuesday, December 1, 2009 will receive full consideration.

The Space Telescope Science Institute is operated by the Association of Universities for Research in Astronomy, and is an affirmative action, equal opportunity employer. Women and members of minority groups are strongly encouraged to apply. EOE/AA/M/F/D/V.

Comprehensive Benefits: -Medical, dental, prescription, and vision -Vacation: Up to 5 weeks of paid vacation a year -Sick Leave: Up to 12 sick days a year -Paid Holidays: 7 regular holidays and 3 personal holidays -Employee Voluntary Retirement Savings Plan -Casual Work Environment -Flexible Work Schedules -Tuition Reimbursement and Prepayment Program -Telecommuting Options Available -Free Parking -Flexible Spending Accounts -Employee Assistance Program -Company-paid Life, Short-term Disability, and Long-term Disability -Employer-sponsored Retirement Plan: Company contribution equal to 10% of base salary annually

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No. 25838 (New)
ALMA Regional Centre Astronomer
ESO - EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE
Karl-Schwarzschild-Str. 2
Garching near Munich, Bavaria 85748
Germany
Tel: +49 89 3200 6865
FAX: +49 89 3200 6497
URL1: https://jobs.eso.org/esocp370/documents/DOC0000253.PDF
Email Submission Address: vacancy@eso.org
Email Inquiries: vacancy@eso.org

Attention: Human Resources, Human Resources

Applications are invited for an ALMA Regional Centre (ARC) Astronomer in the Data Management - Operations Division at the ESO Headquarters in Garching (Munich), Germany.

The ALMA project is an international collaboration to construct and operate a large submillimeter – millimeter interferometer in Chile. ESO leads and administers European participation. ALMA is operated by the Joint ALMA Observatory (JAO) in Chile. The European ARC is the primary interface between the JAO and the European users.

As an ARC astronomer you will participate in: managing the European ARC nodes network, mainly regarding user support; the cooperation with the North America and East Asia regional centres; the JAO Proposal Handling process; the ESO ARC activities related to user support; and the user documentation.

Extensive travel within the European community and to partner organisations in North America, Japan and Chile will be required.

As an astronomer and member of the ESO Science Faculty the successful candidate is expected to conduct astronomical research directed towards the effective use of ALMA and participate actively in the scientific life of ESO.

Further information about ARC activities are on the ESO web.

The position requires a PhD in Astronomy, Physics or equivalent.

Candidates should have worked in astronomical research for a few years at the postdoctoral level and be familiar with a broad range of instrumental, data analysis, and observational techniques. Involvement with the existing European millimeter astronomical community and research and/or operational experience with radio-millimeter interferometers are highly desirable.

Excellent communication skills, ability to work in team and a good command of English are essential.

No benefits information has been provided by the employer.

No. 25841 (New)
Assistant Professor
UNIVERSITY OF CHICAGO
Tel:
Email Inquiries: jmsmith@uchicago.edu

Attention: Edward Kolb, Chair

The Department of Astronomy & Astrophysics of The University of Chicago expects to have a faculty position at the Assistant Professor level available beginning in Fall 2010. (Appointment at the level of Associate Professor or Full Professor is possible for exceptionally well-qualified candidates.) The successful candidate must have a doctoral degree in astronomy or a related field (or completed all requirements for the PhD at time of appointment), and is expected to establish an independent research program while contributing effectively to the Department's undergraduate and graduate teaching programs.

The primary research themes in our Department are fundamental aspects of cosmology; birth and evolution of galaxies, clusters, and quasars; evolution of the intergalactic medium; formation and evolution of stars; supernovae; and multi-messenger astronomy (gamma rays, cosmic rays, dark matter, and neutrinos). The Department has scientific efforts in a wide range of projects including: Auger Project, SOFIA, VERITAS, Dark Energy Survey, Sunyaev-Zeldovich Array & CARMA, and the South Pole Telescope. The Department is pursuing access to large optical telescopes in the Southern Hemisphere in addition to the Dark Energy Survey. Department members play major roles in the DOE-supported ASC/Flash Center that focuses on simulating Type Ia supernovae and high-energy-density physics experiments. Department members are also centrally involved with the Enrico Fermi Insitute, the Kavli Institute for Cosmological Physics, the new Computation Institute at The University of Chicago, and Fermilab and Argonne National Labs.

We are seeking energetic candidates who will strengthen these existing programs and provide leadership in new ones.

Applicants must apply on line at the University of Chicago academic jobs website at https://academiccareers.uchicago.edu . Applicants must upload a CV, list of publications, and a description of their research. Applicants must also arrange for three letters of recommendation to be sent to the following email address:

facultysearch09@oddjob.uchicago.edu

Review of completed applications will begin on December 1, 2009; to ensure full consideration, all material should be submitted by that date. The University of Chicago is an Affirmative Action / Equal Opportunity Employer.

No benefits information has been provided by the employer.

No. 25709
Research Associate
UNIVERSITY OF LEICESTER
Tel:
URL1: http://www2.le.ac.uk/offices/personnel *(on line recruitment website)*
Email Inquiries: recruitment@le.ac.uk

Attention: Recruitment Team

Research Associate

Department of Physics and Astronomy

Salary Grade 7 - £30,594 to £35,469 p.a.

Ref: SEN00005

We seek to appoint a Research Associate in Observational Astronomy to support the world-leading work of Prof Martin Barstow (Head of Science & Engineering) in stellar physics and space mission development. Candidates should have a PhD (or close to completing a PhD) and relevant expertise in astrophysics or a closely related area.

For further information and to apply on-line, please visit our website: http://www2.le.ac.uk/offices/personnel

Closing Date: 14th September 2009

Promoting equality of opportunity throughout the University

Times Higher Education University of the Year 2008-9

No benefits information has been provided by the employer.

No. 25710
Physics/Astronomy
COLLEGE OF SAINT BENEDICT/SAINT JOHN' S UNIVERSITY
PO Box 7188
Collegeville, MN 56321
USA
Tel:
Email Submission Address: employment@csbsju.edu

Attention: Human Resources

The Department of Physics and Astronomy at the College of Saint Benedict/Saint John's University invites applications for a full-time tenure-track position. The successful candidate will be expected to teach at all levels of a rigorous undergraduate physics curriculum and have a demonstrated ability to develop a research program involving undergraduates. Candidates should have collectively a minimum of one year experience appropriate to maintaining our small observatory, including operating, repairing, and analyzing data from small optical telescopes. Teaching responsibilities may include courses and labs in Physics or Astronomy and courses in the Common Curriculum. A Ph.D. in Physics or Astronomy is required with graduate course work in Astronomy and Physics. For department information visit http://www.csbsju.edu/physics/ . Send letter of application, curriculum vitae, three letters of recommendation, statement of teaching philosophy, evidence of teaching effectiveness, and copies of transcripts (official transcripts required for interview) to: College of Saint Benedict/Saint John's University, Human Resources, PO Box 7188, Collegeville, MN 56321, mployment@csbsju.edu. Applications deadline is August 30, 2009. Women and people of diverse racial ethnic, and cultural backgrounds are encouraged to apply. The College of Saint Benedict/Saint John's University are EOE/AA employers.

No benefits information has been provided by the employer.

No. 25731
STAFF POSITION in extragalactic astrophysics/cosmology
MAX-PLANCK-INSTITUT FUER ASTROPHYSIK
Tel:

Email Inquiries: swhite@mpa-garching.mpg.de

Attention: Appointments Committee

The Max Planck Institute for Astrophysics (MPA) seeks a numerical astrophysicist for a staff position in extragalactic astrophysics/cosmology.

The MPA is an independent institute within the Max Planck Society and carries out a broad programme of theory and data analysis covering much of astrophysics. It has a particularly strong tradition in numerical astrophysics. Areas of concentration in extragalactic astrophysics include: galaxy structure; galactic dynamics; galaxy formation and evolution; galaxy clusters; large-scale structure; gravitational lensing; the intergalactic medium; microwave background studies; AGN formation and evolution; physical cosmology. These are supported by active participation in ESA's Planck mission, in the Sloan Digital Sky Survey, in the LOFAR Project, in the Virgo Supercomputing Consortium and in a number of European research networks. Further information about MPA and its research programmes can be found at

http://www.mpa-garching.mpg.de

Long-term staff at MPA are expected to lead independent research programmes which complement and interact with those of other institute scientists. Typically they work with a number of the institute's postdocs and graduate students and obtain additional research support through proposals to external agencies. Collaboration with other institute staff in all areas is strongly encouraged. The institute has its own powerful cluster-based computing resources, as well as privileged access to world-class supercomputing capabilities at the Max Planck Society's Computation Centre and the Leibniz Computer Centre of the State of Bavaria, both located in Garching. The present post will be filled at tenure-track or at tenured level depending on the qualification of the candidate.

Applicants should provide a CV, a publication list, and a one-page research plan. All material should be sent in electronic form (pdf) to

staffad@mpa-garching.mpg.de.

The applicant should also ask 3 referees to send letters to the same email address. The deadline is 15 September 2009, but late applications will be accepted until the post is filled. Interested candidates seeking further information are encouraged to contact Simon White at swhite@mpa-garching.mpg.de.

The MPA is actively committed to equal opportunity in employment.

No benefits information has been provided by the employer.

No. 25735
FACULTY POSITION IN ASTROPHYSICS - UNIVERSIDAD DE CHILE
UNIVERSIDAD DE CHILE
Camino El Observatorio 1515
Las Condes
Santiago, Casilla 36D
Chile
Tel: 56 2 977 1091
FAX: 56 2 229 3973
URL1: www.das.uchile.cl
Email Submission Address: mhamuy@das.uchile.cl
Email Inquiries: mhamuy@das.uchile.cl

Attention: Mario Hamuy, Chair

The Department of Astronomy at Universidad de Chile invites applications for a new faculty position in astrophysics at the Assistant Professor level. The new faculty member is expected to carry out a vigorous program of research and to participate fully in the teaching program in the Department. Candidates are expected to have a Ph.D. degree and a demonstrated ability in independent research.

The position is open to researchers working in any area of astronomy but preference will be given to those with strong interest in science relevant to the ALMA project and a background on theoretical astrophysics and numerical simulations. The awardee will have access to high performance computing facilities available in Chile and will be eligible to apply to the 10% observing time granted to the Chilean community in world-class observatories such as ALMA, VLT, Gemini-South, Magellan, APEX, CTIO, La Silla, among others. Interested individuals should submit applications by regular mail, including a curriculum vitae, a publications list, and a brief description of research interests. In addition, three letters of recommendation should be sent to Prof. Mario Hamuy, Chair, Departmento de Astronomia, Universidad de Chile, Casilla 36-D, Santiago, Chile. The deadline for applications is 30 September 2009. The selected candidate is expected to start his work no later than January 2010. English is the working required language. No Spanish is needed at the moment of applying, but the awardee will be required to start learning Spanish upon his arrival.

No. 25736
Lectureship in Theoretical Cosmology
UNIVERSITY OF SUSSEX
Tel:
URL1: www.sussex.ac.uk/jobs
Email Inquiries: a.liddle@sussex.ac.uk

Attention: UNIVERSITY OF SUSSEX

School of Mathematics & Physical Sciences Ref: 642 Department of Physics & Astronomy Lectureship in Theoretical Cosmology Full time, permanent £29,704 to £43,622 per annum, depending on qualifications and experience

Applications are invited for a permanent lectureship in theoretical cosmology in the Sussex Astronomy Centre, at a level to be determined by the candidate’s experience. The Astronomy Centre is one of four research groups within the Department of Physics & Astronomy, with its work focused on extragalactic astrophysics and cosmology. It has seven permanent staff members: David Axon, Ilian Iliev, Andrew Liddle, Jon Loveday, Seb Oliver, Kathy Romer and Peter Thomas, plus 8 postdocs and 14 DPhil students. Members of the Centre also work closely with cosmologists in the Theoretical Particle Physics group led by Mark Hindmarsh,

The successful applicant will be expected to undertake internationally-competitive research in the field of theoretical cosmology, enhancing or complementing the existing research of the group. He or she will carry out undergraduate teaching, undertake PhD student supervision, and develop and deliver graduate level courses in his or her specialist areas.

Informal enquiries may be directed to Prof Andrew Liddle (a.liddle@sussex.ac.uk, +44 (0)1273 877064) or Dr Mark Hindmarsh (Head of Department; m.b.hindmarsh@sussex.ac.uk, +44 (0)1273 678775).

Astronomy Centre website: http://astronomy.sussex.ac.uk/

Closing date: 31 August 2009 Interviews to be held 25 September 2009

For full details and how to apply see www.sussex.ac.uk/jobs

The University of Sussex is committed to equality of opportunity

No benefits information has been provided by the employer.

No. 25739
User Support Astronomer
ESO - EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE
Karl-Schwarzschild-Str. 2
Garching near Munich, Bavaria 85748
Germany
Tel: +49 89 3200 6865
FAX: +49 89 3200 6497
URL1: https://jobs.eso.org/ESOCP370/documents/DOC0000246.PDF
Email Submission Address: vacancy@eso.org
Email Inquiries: vacancy@eso.org

Attention: Human Resources, Human Resources

Applications are invited for the position of User Support Astronomer for the User Support Department within the Data Management and Operations Division at the ESO Headquarters in Garching near Munich, Germany.

The main tasks will include providing support to users of the Very Large Telescope (VLT) or the Very Large Telescope Interferometer (VLTI) or the survey telescope VISTA in the areas of Phase 1 (observing proposal preparation) and Phase 2 (review of observation blocks and observing strategy), supporting the Paranal Observatory during programme execution and follow-up as well as having an active role in the operation teams of the instruments to be supported. The successful candidate will support instruments of the VLT, VLTI and/or the survey telescopes. You will be expected to travel to the Observatory in Chile at least once per year.

As an astronomer and member of the ESO Science Faculty the successful candidate will be expected and encouraged to conduct astronomical research and participate actively in the scientific life of ESO. Research in areas directed towards using the capacities of VLT and future capabilities of E-ELT will be strongly encouraged.

The position requires a PhD in astronomy, physics, or equivalent. Candidates should have worked in astronomical research for several years at least at the postdoctoral level and should be familiar with a broad range of instrumental, data analysis, and observational techniques and be experienced in the use of current large observing facilities, either ground-or space-based. A working knowledge of the UNIX operating system is required. Excellent communication skills, ability to work in a team, and a good command of the English language are essential.

For further information on the position and the application process, please visit our website: https://jobs.eso.org/

We offer an attractive remuneration package including a competitive salary (tax free), comprehensive pension scheme and medical, educational and other social benefits, as well as financial support in relocating your family, the possibility to place your child/children in daycare up to the age of 6.

No. 25741
Faculty Openings for McWilliams Center for Cosmology
CARNEGIE MELLON UNIVERSITY
Dept. of Physics
5000 Forbes Avenue
Pittsburgh, PA 15213
USA
Tel: 412-268-8367
FAX: 412-681-0648
Email Submission Address: donnat@andrew.cmu.edu

Attention: Donna Thomas, Secretary

Faculty Openings Carnegie Mellon University McWilliams Center for Cosmology

The Department of Physics at Carnegie Mellon University invites applications for tenure-track faculty positions at the junior or senior level associated with the Bruce and Astrid McWilliams Center for Cosmology. The McWilliams Center, which has benefited from a major endowment gift to the university, joins efforts in particle physics and astrophysics within the Department of Physics at Carnegie Mellon. Historically, the Department has had a strong effort in particle theory and high-energy experiment. More recently, the Department has built up a theoretical and observational cosmology group, much of whose research is related to uncovering the nature of the dark part of the universe. The McWilliams Center synergizes these efforts within Physics and capitalizes on unique collaborative opportunities both within and outside Carnegie Mellon. Powerful computing clusters have been created both within the McWilliams Center and in collaboration with the Department of Computer Science. Carnegie Mellon joined the LSST collaboration, has faculty working on BOSS in SDSS-III, and is engaged in trying to build a new type of radio telescope to explore the universe using the 21 cm radiation of neutral Hydrogen. Physical space for the McWilliams Center has been renovated within the Department of Physics. The first two McWilliams Postdoctoral Fellows are at the Center this year, and the first of several new faculty members has been hired. Please visit the Center's website at www.cmu.edu/cosmology for more details.

The research areas for the search include: theoretical astrophysics, with emphasis on computation and simulation; experimental astrophysics, with emphasis on the dark part of the universe and data mining; and theoretical particle physics, especially as related to LHC physics. We seek candidates with significant accomplishments and promise for further achievement in exploring the nature of dark matter and dark energy. Tenure-track appointments at the junior or senior level will be considered. Successful candidates are encouraged to enhance links between the Department of Physics and the School of Computer Science and the Department of Statistics at Carnegie Mellon, the Pittsburgh Supercomputing Center, and the Department of Physics and Astronomy at the University of Pittsburgh.

Candidates should submit a curriculum vitae, publication list, statement of research plans, and arrange for three letters of recommendation sent to Cosmology Search Committee, Department of Physics, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213.

For full consideration, all materials should be received by October 15, 2009.

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

No benefits information has been provided by the employer.

No. 25742
Radio Astronomer, Senior Lecturer, ICT
SWINBURNE UNIVERSITY
H39 PO Box 218
Hawthorn, Vic 3122
Australia
Tel: +61-3-9214 8782
FAX: +61-3-9214 8797
URL1: http://astronomy.swin.edu.au/jobs *(Centre website)*
Email Submission Address: mbailes@swin.edu.au
Email Inquiries: mbailes@swin.edu.au

Attention: Matthew Bailes, Professor

The Centre for Astrophysics and Supercomputing invites applications for a joint faculty/radio astronomy research position. The applicant should have a strong knowledge of radio astronomy instrumentation, and will work closely with the pulsar group led by Professor Bailes in developing new digital instrumentation, high precision timing of pulsars, and searches for pulsed emission from existing and future radio facilities. They will teach ICT students both programming and into advanced units in topics such as data mining. Applicants should forward a cover letter documenting their teaching experience and addressing the selection criteria, a CV, a full publication list, a 2-page research plan, and the names of 3 referees to Professor Bailes by August 31 2009. Email applications are strongly preferred. Applicants should refer to the complete position description on the Centre website. The initial contract duration will be 30 months. The salary is on the senior lecturer scale, and is currently AUD 85,280-98,268 plus 17% superannuation.

17% superannuation. Generous maternity leave.

No. 25677
Canada Tier 1 Research Chair in Astronomy or Astrophysics
UNIVERSITY OF BRITISH COLUMBIA
6224 Agricultural Road
Vancouver, BC V6T 1Z1
Canada
Tel:
FAX: 604-822-5324
URL1: http://www.chairs.gc.ca/
URL2: http://www.physics.ubc.ca/Job_Appl_Info
Email Submission Address: jobs@physics.ubc.ca

Attention: Chair, CRC Astronomy Chair Search Committee

Canada Tier I Research Chair in Astronomy or Astrophysics UNIVERSITY OF BRITISH COLUMBIA

The Department of Physics & Astronomy at the University of British Columbia invites applications from exceptional candidates in all fields of Astronomy and Astrophysics for a Tier I Canada Research Chair (CRC) faculty position. The person hired will be a scientist with an outstanding international reputation in astronomy or astrophysics and will be expected to assume a leadership role in Canada's various space or ground-based initiatives, as well as taking part in the research and teaching activities of UBC's astronomy and astrophysics group. The position in the department will be a Professor with tenure and research support is expected from the Canadian Foundation for Innovation, Canadian aerospace industry, the Natural Sciences and Engineering Research Council of Canada, and the Canadian Space Agency. Information about the CRC program can be found at http://www.chairs.gc.ca/

UBC has an active program in astronomy and astrophysics with major participation in BLAST, MOST, Planck and Herschel, SKA, TMT and WMAP. UBC enjoys close proximity and collaboration with the National Research Council's Herzberg Institute of Astrophysics in both Victoria and Penticton. The successful candidate will have access to computing facilities in the department and at Westgrid.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We strongly encourage candidates with diverse backgrounds and experiences to apply, including women, people of colour, people of aboriginal origin, and people with disabilities. Canada Research Chairs are open to individuals of any nationality; offers will be made in accordance with Canada Immigration requirements associated with the Canada Research Chairs Program. The position is subject to review and final approval by the CRC Secretariat. Applicants are urged to submit online applications at http://www.physics.ubc.ca/Job_Appl_Info by August 31, 2009. A CV, publications list, a statement of research interests, and a summary of teaching interests and experience are required. Three letters of reference may be submitted (preferably) electronically to jobs@physics.ubc.ca, or sent by mail to: Chair, CRC Astronomy Chair Search Committee, Department of Physics and Astronomy, University of British Columbia, 6224 Agricultural Road Vancouver, B.C. V6T 1Z1, Canada

No benefits information has been provided by the employer.

No. 25767 (New)
Research Associates
CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS (CITA)
University of Toronto
60 St. George Street
Toronto, Ontario M5S 3H8
Canada
Tel: 416-978-6879
FAX: 416-978-3921
URL1: http://www.cita.utoronto.ca/
Email Inquiries: office@cita.utoronto.ca

Attention: Prof. N. Murray, Director

CITA is a national centre for theoretical astrophysics located at the University of Toronto. The Institute expects to offer one or more Research Associate positions of three to five years duration. The starting date will be September 1, 2010. Applicants should have an excellent research record in astrophysics and postdoctoral experience. Funds will be available for travel and other research expenses. The primary duty is to carry out original research in theoretical astrophysics, but senior research associates are also expected to work with postdoctoral fellows and to assist with administration of the Institute.

All applicants for senior research associate positions will also be considered automatically for postdoctoral fellowships.

HOW TO APPLY:

We would prefer electronic submissions. Please check http://www.cita.utoronto.ca under "Working at CITA" for instructions. Applicants unable to access the

web should mail a curriculum vitae; statement of research interests and arrange for three letters of recommendation to be sent to: Professor N. Murray, Director, Canadian Institute for Theoretical Astrophysics, University of Toronto, 60 St. George Street, Toronto, Ontario, CANADA, M5S 3H8

DEADLINE FOR APPLICATIONS AND ALL LETTERS OF RECOMMENDATION IS NOVEMBER 15, 2009

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

No benefits information has been provided by the employer.

No. 25779 (New)
Space Sciences Laboratory Senior Fellow Program In Education and Public Outreach
THE UNIVERSITY OF CALIFORNIA AT BERKELEY
SSL Silver 203
7 Gauss Way MC 7450
Berkeley, CA 94720-7450
USA
Tel: (510) 642-1361
FAX: (510) 643-7629
URL1: http://cse.ssl.berkeley.edu/SeniorFellow.html *(More Detailed Job Description)*
Email Submission Address: daniele@ssl.berkeley.edu
Email Inquiries: daniele@ssl.berkeley.edu

Attention: Daniele Meilhan

Applications are invited for the position of Senior Fellow and Director of the Center for Science Education at the Space Sciences Laboratory (CSE@SSL). Appointment will be awarded to Ph.D. scientists who have demonstrated leadership, creativity, and research in education and public outreach in the space sciences. Candidates with Ph.D. degrees in either space science or science education will be considered for the position. Senior Fellow will receive Principal Investigator status and will be expected to pursue outside funding with the goal of continuing the strong track record of science education work conducted by the CSE@SSL group. The incumbent will lead a group of scientists, educators, and support staff in the implementation of a variety of science education and public outreach activities and science education research for the K-12, informal education, and outreach communities. Some start-up funds are available. The level, to be determined at the time of appointment, will be Coordinator of Public Programs VI-VII, depending upon qualifications.

Application Deadline: October 1, 2009. Anticipated start date December 2009, or to be negotiated. Interested applicants should send CV, list of science education related publications, track-record of awarded grants, statement of science education and public outreach experience, and three reference names and contact information to: Daniele Meilhan, UC Berkeley, SSL Silver 203, 7 Gauss Way MC 7450, Berkeley, CA 94720-7450. Email: daniele@ssl.berkeley.edu. FAX: (510) 643-7629. Salary will be based on education and experience. The University of California is an Equal Opportunity Employer. Women and minorities are particularly encouraged to apply. AAE/EOE. More detailed job description at: http://cse.ssl.berkeley.edu/SeniorFellow.html

No benefits information has been provided by the employer.

No. 25821 (New)
Gemini Science Fellows OR Scientists
AURA-GEMINI OBSERVATORY
670 N. A'ohoku Place
Hilo, HI 96720
Tel:
URL1: http://www.gemini.edu *(Gemini Observatory Website)*
URL2: http://www.gemini.edu/jobs *(Gemini Observatory Jobs Page)*
Email Submission Address: gemini-jobs@gemini.edu
Email Inquiries: jjorgensen@gemini.edu; brodgers@gemini.edu

Attention: Neil Barker

Gemini has two openings for Gemini Science Fellows or Scientists. One position at Gemini South, La Serena, Chile will be filled at level of Science Fellow, while one position at Gemini North, Hilo, Hawaii, will be filled either at the level of Science Fellow or Assistant Scientist. Gemini Science Fellows and Scientists acquire significant training and experience in large ground-based telescope operations—becoming proficient both in state-of-the-art astronomical instrumentation and research, and in the techniques of modern, queue-based observing methods, pioneered by Gemini Observatory.

Science Fellows and Scientists at Gemini are actively involved in personal research projects. For Science Fellows forty percent (40%) of the Fellow's time is available for independent astronomical research, supported by a personal research budget. Scientists have up to thirty percent (30%) of their time available for independent astronomical research. In addition, a fraction of the time available on both Gemini telescopes is reserved for successful peer-reviewed staff proposals.

Gemini Science Fellows and Scientists can expect to spend approximately 15 to 20 nights per semester executing observations on the telescope utilizing any of the three or more active instruments. Fellows and Scientists also support investigators in the community in preparing their observations and employ queue planning tools to construct nightly observing plans from a large database of potential observations. Science Fellows and Scientists have the opportunity to become intimately involved in instrumentation projects, data analysis tools, or other observatory development projects, depending on their interests.

The next few years will see the implementation of significant and exciting new capabilities at Gemini South, including a near-IR multi-object spectrograph and imager (Flamingos-2), a laser guide star multi-conjugate AO system and high resolution imager (GeMS) and later the Gemini Planet Imager. Applicants with interest and/or experience relevant to these capabilities are particularly encouraged to apply.

At Gemini North, the near-IR spectrograph GNIRS is expected to be re-commissioned and enter science operations in 2010. In addition we seek to enhance the user support for the mid-IR image and spectrograph Michelle. Applications are especially encouraged from individuals with prior experience in using and supporting mid-IR and near-IR instrumentation.

Gemini offers an attractive and competitive salary and benefit package. The duration of Fellow positions is three years, with a possible two-year extension. Successful Fellows can expect to have the option for continuing employment with the Observatory through promotions to tenure or parallel track positions. An appointment as Assistant Scientist is part of the Observatory's parallel track positions. The majority of the successful applicants' time is spent at the base facilities. The Gemini North base facility is located in Hilo, Hawaii, a town with a very diverse population of about 43,000 people, a tropical climate, and a substantial international astronomical community supporting the observatories on Mauna Kea. The Gemini South base facility is located in La Serena, Chile, a popular beach town with a mild climate, modern amenities, and a substantial international astronomical community supporting four nearby observatories.

Requirements: Ph.D. in astronomy, physics or related discipline. Significant optical and/or infrared observational, data analysis and/or instrumentation experience is highly desirable. Experience and/or knowledge in one or more of the following areas is a plus: near and mid infrared imaging and spectroscopy;

optical and near infrared multi-object and IFU spectroscopy; adaptive optics and high spatial resolution imaging.

Must be safety conscious; possess or be able to obtain a valid passport; willing and able to travel internationally; possess a valid driver's license with a good driving record; and be able to drive 4WD vehicles. Applicants must be able to work nights at the altitude of the Mauna Kea summit, 4200 m.

The Gemini Observatory is a partnership of seven countries: the USA, UK, Canada, Australia, Argentina, Brazil and Chile, conducting forefront astronomical research with 8-m optical/infrared telescopes in Hawaii and Chile.

Send resume, cover letter relating your experience and education to the duties of the position, statement of research, and a statement of Observatory support interests. Arrange to have letters from three professional references sent to gemini-jobs@gemini.edu. Please include the AAS Job Register number in your cover letter. Applications will be considered as they are received and all applications received by October 30, 2009 will receive full consideration. Starting dates are negotiable but are expected to be between March 2010 and October 2010.

For further information about the positions please contact Dr. Inger Jørgensen, Gemini-North Head of Science Operations (ijorgensen@gemini.edu), Bernadette Rodgers, Gemini-South Head of Science Operations (brodgers@gemini.edu) or Dr. Dennis Crabtree, Associate Director for Science Operations (dcrabtree@gemini.edu).

AA/EOE

We have a great benefits package, including full medical and dental coverage for the employee and 50% cost sharing for employee's dependents, paid holidays and 24 vacation days annually, sick leave, life and AD&D insurance, retirement plans, tuition assistance, long term disability insurance, and travel/accident insurance.

No. 25711
ApJ Scientific Editor
MCMASTER UNIVERSITY
1280 Main Street West, GSB- 118
Hamilton, ON L8S 4K1
Canada
Tel: 905-525-9140 ext 21297
FAX: 905-521-1143
Email Submission Address: apj@mcmaster.ca

Attention: Ethan T. Vishniac, Editor-in-Chief

THE ASTROPHYSICAL JOURNAL - SCIENTIFIC EDITORS

The American Astronomical Society is soliciting applications for Scientific Editor of The Astrophysical Journal. The ApJ Scientific Editors play a vital role in maintaining the high scientific standards of the Journal. Each editor oversees the peer review of 150-200 papers per year, and together with the other editors advises the Editor-in-Chief on issues of general editorial policy. Appointments are for terms of three years, subject to approval by the AAS Publications Board and the AAS Council, with an option for a second term at the discretion of the Editor-in-Chief. The term for this appointment would begin in January 2010.

For these appointments we are seeking editors who can oversee the review of manuscripts in the observational cosmology, especially high redshift galaxies, and related areas. Candidates should have a strong record of published scientific research, and be prepared to commit the time (up to 20% FTE) that is required to carry out the duties of a Scientific Editor. Although these are largely volunteer positions, funding is provided for office equipment, secretarial support, travel to editorial meetings, and a modest stipend or research grant. Scientific Editors are required to be members of the AAS during their terms of appointment, but residence at a U.S. institution is not required.

Interested parties should send a cover letter explaining their particular expertise and a copy of their CV, including publications.

No benefits information has been provided by the employer.

No. 25738
STFC-funded Research Assistant or Research Fellow in Astronomy and Astrophysics
UNIVERSITY OF WARWICK
Tel:
URL1: www.warwick.ac.uk/jobs *(for applications)*
URL2: www.astro.warwick.ac.uk

Attention: Human Resources

Physics STFC-funded Research Assistant or Research Fellow in Astronomy and Astrophysics £23,449 - £26,391 pa or £27,183 - £35,469 pa Ref: 55118-079 Fixed Term Contract until 31 March 2011

You will work in collaboration with members of the group on one or more of the following areas: interacting binary stars and accretion physics, extra-solar planets, gamma-ray bursts and supernova progenitors.

You must hold, or be about to obtain, a PhD degree in Astronomy. Experience in observational astronomy and familiarity with the reduction and analysis of spectroscopic and photometric data will be a strong advantage.

The position, which is available from September 2009, is funded until 31 March 2011, with further funding to be applied for in 2010.

An application form MUST be completed if you wish to be considered for this post(see URL1). You should also submit a signed covering letter, concise description of research accomplishments and relevant technical experience and a CV including a full publication list.

Informal enquiries about this post can be made to: Prof. T.R. Marsh (t.r.marsh@warwick.ac.uk)

Closing date: 7 September 2009

URL1: www.warwick.ac.uk/jobs URL2: www.astro.warwick.ac.uk

No benefits information has been provided by the employer.

No. 25726 (New)
Henri Poincaré Fellowship
OBSERVATOIRE DE LA CÔTE D'AZUR

Tel:
URL1: http://www.oca.eu/poincare *(Henri Poincaré Fellowship webpage)*
URL2: http://www.oca.eu/poincare/faq.html *(Frequently Asked Questions)*
URL3: http://www.oca.eu/poincare/factsheet.html *(Electronic Application Factsheet)*

Attention: cpoca@oca.eu

The Observatoire de la Côte d'Azur (OCA) offers a postdoctoral fellowship in various research areas related to astronomy and geophysics including: astrometry, coronography, gravitational waves, image and signal processing, observational cosmology, optical interferometry, planetary science, space geodesy, stellar astrophysics, turbulence and space plasmas, geochemistry, geochronology, marine geology, petrology, rock mechanics, seismology and tectonics. The position is for one to two years. The fellowship monthly stipend ranges from 2000 to 2400 euros. Applicants must have obtained their PhD outside the OCA. Applications are reviewed internally, before a final selection by the Henri Poincaré Committee, comprising representatives of Conseil Général des Alpes-Maritimes, Académie des Sciences, Collège de France and funding agencies. The start date is between September 1, 2010 and December 1, 2010

Applicants should fill in the electronic Application Factsheet and submit their applications electronically as a single PDF file to cpoca@oca.eu. Applications (no special format) should include a CV, a description of research work, the names and contact details of (no more than) three referees and three key publications. The overall size of the application should not exceed 10Mbytes. Reference letters may be sent electronically to Dr. Fathi Namouni (cpoca@oca.eu) or by standard mail to Dr. Fathi Namouni, Observatoire de la Côte d'Azur, BP 4229, 06304 Nice cedex 4 France. Reference letters must be received no later than two weeks after the closing date, November 15, 2009.

For further information, please see the Frequently Asked Questions webpage or contact Dr. Fathi Namouni (phone: +33492003023, fax: +33492003118, email: cpoca@oca.eu)

Health insurance

No. 25754 (New)
Postdoctoral Scholar in Submillimeter Wave Astronomy
CALIFORNIA INSTITUTE OF TECHNOLOGY
Mail Code 301-17
1200 E. California Blvd.
Pasadena, CA 91125-1700
USA
Tel: 626-395-4278
FAX: 626-796-8806
URL1: http://www.submm.caltech.edu/cso/
URL2: http://herschel.caltech.edu
Email Submission Address: dcl@submm.caltech.edu
Email Inquiries: dcl@submm.caltech.edu

Attention: T. G. Phillips, Altair Professor of Physics

The California Institute of Technology operates the Caltech Submillimeter Observatory (CSO; http://www.submm.caltech.edu/cso/), a 10.4 m Leighton telescope at 4,200 m altitude, near the summit of Mauna Kea, Hawaii. The telescope accommodates heterodyne spectroscopy as well as continuum and spectroscopic bolometer studies in the 200–900 GHz (1.5–0.32mm) spectral range. The observatory utilizes SIS receivers and low temperature bolometer arrays. At the moment a new generation of 4 GHz IF bandwidth receivers is being introduced. Also, in the longer term, a new facility camera using novel Microwave Kinetic Inductance Detectors will replace the existing long-wavelength bolometer camera, Bolocam. The SHARC II short-wavelength camera will continue to be available. A postdoctoral scholar position is available at Caltech in Pasadena, to work in the CSO group, in ISM studies. The successful applicant would also participate in the analysis and interpretation of the data from the Heterodyne Instrument for the Far-Infrared (HIFI) aboard the Herschel Space Observatory (HSO; http://herschel.caltech.edu). The initial appointment, contingent upon completion of Ph.D. requirements, is for one year, renewable to a total of three years. Applicants should send a curriculum vitae, list of publications with refereed articles indicated, statement of research interest and arrange for three letters of recommendation to be sent to: T. G. Phillips, Mail Code 301−17, Caltech, 1200 E. California Blvd., Pasadena, CA 91125, by 30 November, 2009.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Person are encouraged to apply.

For information please see benefits at http://www.hr.caltech.edu/

No. 25755 (New)
POSTDOCTORAL PRIZE FELLOWSHIPS IN EXPERIMENTAL PHYSICS OR ASTROPHYSICS
CALIFORNIA INSTITUTE OF TECHNOLOGY
1200 E. California Blvd.
MC 103-33
Pasadena, CA 91125
US
Tel:
URL1: http://www.pma.caltech.edu/GSR/positionsavail.html
Email Inquiries: nell@caltech.edu

Attention: PRIZE FELLOWSHIPS IN EXPERIMENTAL PHYSICS OR ASTROPHYSICS

The Division of Physics, Mathematics and Astronomy offers a number of Prize Fellowships at the Postdoctoral Scholar level in Experimental Physics or Astrophysics. In the case of astrophysics, only candidates whose focus is primarily instrumental (not purely observational) will be considered. These Fellowships are to begin in Fall 2010 and are for a three year duration. They carry a competitive annual stipend and/or salary combination and offer an annual research expense fund. This fellowship program has been established to offer scientists, typically within a few years after receipt of the Ph.D., the opportunity to pursue new and innovative experimental research. It is expected that this research will require the support and use of facilities of one of the established experimental groups at Caltech. Currently, Caltech has groups working in: Astrophysical Detector Development Atomic Physics Condensed Matter Physics Gravitational Physics High Energy Astrophysics High Energy Physics Infrared & Sub-millimeter Astronomy Low Energy Particle Physics Microwave Background Observations Neurobiology Nuclear Physics Quantum Optics Radio Astronomy Solar Physics Surface Physics Ultraviolet Astrophysics

Please apply online at http://www.pma.caltech.edu/GSR/positionsavail.html. Electronic copies of the curriculum vitae with email address and with citizenship indicated, publications list (indicate articles which appeared in refereed journals), and statement of research interests are required. Electronic Portable Document Format (PDF) submittals are preferred. The applicant is requested to ensure that at least three letters of recommendation are submitted via the web link provided in the electronic application. Deadline for the application is DECEMBER 1, 2009. Application materials may also be sent to EXPERIMENTAL PHYSICS AND EXPERIMENTAL ASTROPHYSICS FELLOWSHIPS, mail code 103-33, California Institute of Technology, Pasadena, CA 91125, to arrive by DECEMBER 1, 2009.

Fellowship candidates will automatically be considered for other available postdoctoral positions in their fields of interest. Email inquiries in regards to the application process may be sent to nell@its.caltech.edu. Caltech is an Affirmative Action/Equal Opportunity Employer Women, Minorities, Veterans and Disabled Persons are encouraged to apply

No benefits information has been provided by the employer.

No. 25756 (New)
Experimental Physics or Astrophysics Postdoctural Prize Fellowships
CALIFORNIA INSTITUTE OF TECHNOLOGY
1200 E. California Blvd.
MC 103-33
Pasadena, CA 91125
US
Tel:
URL1: http://www.pma.caltech.edu/GSR/positionsavail.html
Email Inquiries: nell@caltech.edu

Attention: EXPERIMENTAL PHYSICS OR ASTROPHYSICS POSTDOCTORAL PRIZE FELLOWSHIPS

The Division of Physics, Mathematics and Astronomy offers a number of Prize Fellowships at the Postdoctoral Scholar level in Experimental Physics or Astrophysics. In the case of astrophysics, only candidates whose focus is primarily instrumental (not purely observational) will be considered. These Fellowships are to begin in Fall 2010 and are for a three year duration. They carry a competitive annual stipend and/or salary combination and offer an annual research expense fund. This fellowship program has been established to offer scientists, typically within a few years after receipt of the Ph.D., the opportunity to pursue new and innovative experimental research. It is expected that this research will require the support and use of facilities of one of the established experimental groups at Caltech. Currently, Caltech has groups working in:

Astrophysical Detector Development Atomic Physics Condensed Matter Physics Gravitational Physics High Energy Astrophysics High Energy Physics Infrared & Sub-millimeter Astronomy Low Energy Particle Physics Microwave Background Observations Neurobiology Nuclear Physics Quantum Optics Radio Astronomy Solar Physics Surface Physics Ultraviolet Astrophysics

Please apply online at http://www.pma.caltech.edu/GSR/positionsavail.html . Electronic copies of the curriculum vitae with email address and with citizenship indicated, publications list (indicate articles which appeared in refereed journals), and statement of research interests are required. Electronic Portable Document Format (PDF) submittals are preferred. The applicant is requested to ensure that at least three letters of recommendation are submitted via the web link provided in the electronic application. Deadline for the application is DECEMBER 1, 2009. Application materials may also be sent to EXPERIMENTAL PHYSICS AND EXPERIMENTAL ASTROPHYSICS FELLOWSHIPS, mail code 103-33, California Institute of Technology, Pasadena, CA 91125, to arrive by DECEMBER 1, 2009. Fellowship candidates will automatically be considered for other available postdoctoral positions in their fields of interest. Email inquiries in regards to the application process may be sent to nell@its.caltech.edu.

Caltech is an Affirmative Action/Equal Opportunity Employer Women, Minorities, Veterans and Disabled Persons are encouraged to apply

No benefits information has been provided by the employer.

No. 25757 (New)
THEORETICAL PHYSICS OR ASTROPHYSICS POSTDOCTORAL PRIZE FELLOWSHIPS
CALIFORNIA INSTITUTE OF TECHNOLOGY
1200 E. California Blvd.
MC 103-33
Pasadena, CA 91125
USA
Tel:
URL1: http://www.pma.caltech.edu/GSR/positionsavail.html
Email Inquiries: nell@caltech.edu

Attention: THEORETICAL PHYSICS OR ASTROPHYSICS POSTDOCTORAL PRIZE FELLOWSHIPS

A number of Prize Fellowships at the Postdoctoral Scholar level in Theoretical Physics or Astrophysics will be awarded on the basis of an international competition. They are to begin in Fall 2010. The Postdoctoral Scholar appointments are for a three-year duration, carry a competitive annual stipend and/or salary combination and offer an annual research expense fund.

This Fellowship program has been established to offer scientists, typically within a few years of receipt of the Ph.D., the best possible opportunity to develop their talents. Research will be encouraged in areas in which Caltech's faculty is currently active:

Astrophysics Computational Physics Condensed Matter Physics Elementary Particle Physics Gravitational Physics Mathematical Physics Nuclear Physics Quantum Information Cosmology

Please apply online at http://www.pma.caltech.edu/GSR/positionsavail.html . Electronic copies of the curriculum vitae with email address and with citizenship indicated, publications list (indicate articles which appeared in refereed journals), and statement of research interests are required. Electronic Portable Document Format (PDF) submittals are preferred. The applicant is requested to ensure that at least three letters of recommendation are submitted via the web link provided in the electronic application. Deadline for the application is DECEMBER 1, 2009. Application materials may also be sent to THEORETICAL PHYSICS AND THEORETICAL ASTROPHYSICS FELLOWSHIPS, mail code 103-33, California Institute of Technology, Pasadena, CA 91125, to arrive by DECEMBER 1, 2009.

Fellowship candidates will automatically be considered for other available postdoctoral positions in their fields of interest. Email inquiries in regards to the application process may be sent to nell@its.caltech.edu.

Caltech is an Affirmative Action/Equal Opportunity Employer Women, Minorities, Veterans and Disabled Persons are encouraged to apply

No benefits information has been provided by the employer.

No. 25758 (New)
Postdoctoral Fellowships in Astronomy
CARNEGIE INSTITUTION OF WASHINGTON, DEPARTMENT OF TERRESTRIAL MAGNETISM
Department of Terrestrial Magnetism
5241 Broad Branch Road, NW
Washington, DC 20015

USA
Tel: 202-478-8820
FAX: 202-478-8821
URL1: http://www.dtm.ciw.edu
Email Submission Address: fellowships@dtm.ciw.edu

Attention: Astronomy Fellowships Committee

Applications are invited for postdoctoral fellowships for independent research on the origin and evolution of stars, planets, and life. We are seeking theorists and observers working in the fields of star and planet formation, extrasolar planet detection and characterization, planetary astronomy, and the physical and chemical evolution of prebiotic compounds.

DTM has an active group of researchers in these and other areas. Vera Rubin's work centers on extragalactic astronomy. Alan Boss and John Chambers head the theoretical effort to understand the formation of stellar and planetary systems, while Paul Butler is a leader in the spectroscopic search for extrasolar planets. Alycia Weinberger observes circumstellar disks, including nearby debris and protoplanetary disks. Scott Sheppard studies small, primordial bodies in our Solar System. Conel Alexander, Larry Nittler, and George Cody perform laboratory studies of pre-planetary materials (including circumstellar grains and interstellar organics) in meteorites and interplanetary dust. Planetary scientist Sean Solomon is involved in spacecraft missions at Mars and leads the MESSENGER mission to Mercury.

Our fellows have access to a wide range of facilities. Fellows are eligible to apply for time at Carnegie's Las Campanas Observatory in Chile, including the twin 6.5-m Magellan telescopes. Theoretical calculations are performed on the Carnegie Clusters of Alpha and Xeon processors. Spectroscopic techniques applied to pre-planetary materials include ion microprobe, solid-state NMR, GC-MS, and synchrotron X-ray and IR-spectrometry. DTM fellowships provide support for observing, travel, computing, and publication.

Applicants should have a Ph.D. in a relevant field and a promising record of research and publication. A C.V., list of publications, brief statement of research plans, and three letters of recommendation, sent directly to us by those familiar with your work, should be submitted to the above address by 1 December 2009. Fellowships may be renewed for up to three years. Women and minority candidates are especially encouraged to apply. AAE/EOE.

No benefits information has been provided by the employer.

No. 25759 (New)
Clay Postdoctoral Fellowship 2010
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street, MS 67
Cambridge, MA 02138
USA
Tel: 617-495-7103
FAX: 617-496-7589
URL1: http://www.cfa.harvard.edu/clay/
Email Inquiries: postdoc@cfa.harvard.edu

Attention: Fellowship Program Coordinator

Smithsonian Astrophysical Observatory Clay Postdoctoral Fellowship 2010

The Smithsonian Astrophysical Observatory invites applications for the 2010 Clay Postdoctoral Fellowship. One or more of these appointments will be made to an outstanding researcher–or researchers–displaying significant promise in theory, observation, instrumentation, and/or laboratory experiment.

The Fellowship program is located at the Harvard-Smithsonian Center for Astrophysics, which combines the resources and research facilities of the Harvard College Observatory and the Smithsonian Astrophysical Observatory under a single director. Now organized in six research divisions–Atomic and Molecular Physics; High Energy Astrophysics; Optical and Infrared Astronomy; Radio and Geoastronomy; Solar, Stellar, and Planetary Sciences; and Theoretical Astrophysics–nearly 350 Smithsonian and Harvard scientists work cooperatively in an environment that welcomes the ideas and contributions of young scientists.

Facilities include the MMT (Fred Lawrence Whipple Observatory, Arizona), Magellan (Las Campanas Observatory, Chile), and other optical and infrared telescopes; radio telescopes, especially the Submillimeter Array on Mauna Kea, Hawaii; a large Beowulf cluster and network of workstations; a number of specialized laboratories; an outstanding library; and access to data from a wide range of space missions, especially the Chandra X-ray Observatory and the Spitzer Space Telescope.

Appointments are for 4 years. The stipend for 2010–2011 will be approximately $61,500 with a research budget of $16,000. Funds are also provided for health benefits and relocation expenses. Recent Ph.D. recipients are encouraged to apply.

Application forms and instructions are available at http://www.cfa.harvard.edu/clay/ . Applications are due by October 30, 2009. Offers will be made by December 18, 2009.

The Harvard Smithsonian Center for Astrophysics is an Equal Opportunity/Affirmative Action Employer where all qualified applicants receive consideration for employment without regard to race, creed, color, sex or national origin.

Funds are provided for health benefits and relocation. A research budget of $16,000 is also provided.

No. 25760 (New)
Post doctoral position in extragalactic astronomy with Herschel
LABORATOIRE D'ASTROPHYSIQUE DE MARSEILLE
Technopole de Chateau Gombert
38 rue Joliot Curie
Marseille, Provence 13190
FRANCE
Tel: 00 33 491 05 69 70
FAX: 00 33 491 62 11 90
URL1: www.oamp.fr *(web site of OAMP and LAM (Laboratoire d'Astrophysique de Marseille))*
Email Submission Address: veronique.buat@oamp.fr
Email Inquiries: veronique.buat@oamp.fr

Attention: Veronique Buat, Professor

Applications are invited for a postdoctoral position with Dr. A. Boselli and Pr. V. Buat at Laboratoire d'Astrophysique de Marseille to work on the Herschel Guaranteed time Key Projects HerMES and HRS. The successful applicant will be involved with the reduction and analysis of photometric data obtained with

the PACS and SPIRE instruments. Implications on several Herschel open time key projects (ATLAS, HeViCS, H-GOODS) are possible.

HRS (Herschel Reference Survey) consists of a SPIRE survey of a K band selected, volume limited sample of 323 galaxies in the nearby universe. Combined with data at other wavelengths this sample will be used to study the physical properties of the interstellar medium of galaxies spanning a large range in morphological type and luminosity with the aim of understanding the star formation process and the matter cycle in galaxies. HerMES (Herschel Multi-tiered Extragalactic Survey) consists of a large set of fields observed with Herschel SPIRE and PACS with an unprecedented depth and spatial coverage. These data combined with ancillary surveys will give the first complete view on the evolution of galaxies over cosmological time giving access to the entire star formation occuring in the universe.

Candidates should have obtained, by the starting date, a Ph.D. in Astronomy, Physics, Astrophysics, or equivalent. The appointment is for at least two years. To apply, please send resume, publication list, and statement of research and have three letters of reference forwarded to the same address. Electronic applications are accepted. The deadline for applications is november 1, 2009

No benefits information has been provided by the employer.

No. 25762 (New)
Postdoctoral position in IR interferometry
MAX-PLANCK INSTITUTE FOR RADIO ASTRONOMY
Auf dem Huegel 69
Bonn, D- 53121
Germany
Tel: +49-228-525-243
FAX: +49-228-525-437
URL1: http://www.mpifr-bonn.mpg.de/div/ir-interferometry
Email Submission Address: weigelt@mpifr.de
Email Inquiries: weigelt@mpifr.de

Attention: Gerd Weigelt, Prof.

Applications are invited for a postdoctoral position in the Infrared Interferometry Group of the Max-Planck Institute for Radio Astronomy in Bonn (see http://www.mpifr-bonn.mpg.de/div/ir-interferometry). Preference will be given to applicants with experience in one of the following areas: young stellar objects, active galactic nuclei, radiative transfer modeling, or infrared interferometry.

Successful applicants will be expected to participate in interferometric observations and their interpretations, or in instrumentation projects (e.g., science software development for the VLTI-MATISSE instrument). The position offers excellent opportunities for high-resolution studies using the VLT Interferometer. Since our group is a member of the international LBT consortium, we own LBT Guaranteed Observing Time.

The appointment is initially for two years and is renewable for up to six years. Applicants should submit a curriculum vitae, list of publications, and brief description of research interests, and arrange for one letter of recommendation to be emailed to weigelt@mpifr.de. The review of applications will begin on 1 November 2009 and will continue until the position is filled. The Max-Planck Society is an equal opportunity employer and aims to employ more disabled people. Applications from disabled persons are therefore particularly welcome.

No benefits information has been provided by the employer.

No. 25765 (New)
SMA Postdoctoral Fellowship
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
Tel:
URL1: http://www.cfa.harvard.edu/opportunities/fellowships/sma/ ***(SMA Postdoctoral Fellowship Overview & Application)***
URL2: http://www.cfa.harvard.edu/sma/ ***(Submillimeter Array)***
Email Inquiries: smapostdoc@cfa.harvard.edu

Attention: Attn: SMA Postdoctoral Fellowship

The Submillimeter Array (SMA), a collaborative project of the Smithsonian Astrophysical Observatory and the Academia Sinica Institute of Astronomy and Astrophysics (Taiwan), consists of eight movable 6 meter diameter antennas that together combine to make uniquely detailed images in the submillimeter part of the spectrum, through atmospheric windows that open up on the high, dry summit of Mauna Kea, Hawaii. With collecting area comparable to the largest single dish submillimeter telescopes and baselines to 500 meters, the SMA is used for subarcsecond resolution studies of a wide range of astrophysical phenomena, including Solar System bodies, protoplanetary disks, star forming regions, evolved stars, supermassive black holes, and galaxies both nearby and at cosmological distances.

Applications are invited for SMA Postdoctoral Fellowships starting in fall 2010. These positions are aimed chiefly at research in submillimeter astronomy, and the successful candidates will propose and participate in science observations with the SMA. Applicants must have a recent Ph.D. in astronomy or a related field. Practical experience in millimeter or submillimeter wavelength astronomy, radio interferometry, instrumentation, or experience in any applicable branch of astrophysical theory is desirable. It is expected that the SMA Fellows will be based at the Harvard-Smithsonian Center for Astrophysics in Cambridge, MA. Candidates who would like to be based at the SMA facility at the University of Hawaii, Hilo, HI, are also encouraged to apply. Information and instructions for submitting applications can be found at http://www.cfa.harvard.edu/opportunities/fellowships/sma/ . Please direct questions to smapostdoc@cfa.harvard.edu .

Online applications are due November 30, 2009.

The Smithsonian Astrophysical Observatory is an Equal Opportunity/Affirmative Action Employer where all qualified applicants receive consideration for employment without regard to race, creed, color, sex or national origin.

No benefits information has been provided by the employer.

No. 25766 (New)
Postdoctoral Fellowships (Theoretical Astrophysics)
CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS (CITA)
University of Toronto
60 St. George Street
Toronto, ON M5S 3H8
Canada
Tel: 416-978-6879
FAX: 416-978-3921

URL1: http://www.cita.utoronto.ca/
Email Inquiries: office@cita.utoronto.ca

Attention: Prof. N. Murray, Director

Postdoctoral research fellowships beginning September 1, 2010 are being offered at the Canadian Institute for Theoretical Astrophysics. A Ph.D. in any field of theoretical astrophysics is required. Fellows are expected to carry out original research in theoretical astrophysics under the general supervision of the permanent faculty whose interests include: cosmology, interstellar matter, nuclear and relativistic astrophysics, solar physics, star and planet formation, high energy astrophysics.

HOW TO APPLY:

We would prefer electronic submissions. Please check http://www.cita.utoronto.ca under "Working at CITA" for instructions. Applicants unable to do this, should send a curriculum vitae, statement of research interests and arrange to have 3 letters of recommendation sent to: Prof. N. Murray, Director, CITA, McLennan Labs, 60 St. George Street, Toronto, Ontario CANADA, M5S 3H8.

DEADLINE FOR APPLICATIONS AND ALL LETTERS OF RECOMMENDATION IS NOVEMBER 15, 2009

No benefits information has been provided by the employer.

No. 25768 (New)
CITA National Postdoctoral Fellowship
CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS (CITA)
University of Toronto
60 St. George Street
Toronto, Ontario M5S 3H8
Canada
Tel: 416-978-6879
FAX: 416-978-3921
URL1: http://www.cita.utoronto.ca/
Email Inquiries: office@cita.utoronto.ca

Attention: Prof. N. Murray, Director

CITA is a national centre for theoretical astrophysics located at the University of Toronto. As part of its mandate to promote research throughout Canada, the Institute provides partial support for postdoctoral fellows working in theoretical astrophysics or closely related fields at Canadian universities other than the University of Toronto, through its National Fellows program.

The responsibility for identifying and nominating potential CITA National Fellows who will work at a given university lies with the faculty at that university. Only faculty at Canadian universities may submit nominations. The deadline for these nominations at CITA is November 15, 2009 for fellowships to start in September 2010. Please check with the nominating institution for their internal deadlines.

If you are interested in applying for CITA National Fellowship, please visit http://www.cita.utoronto.ca and click on "Working at CITA" for more information.

No benefits information has been provided by the employer.

No. 25770 (New)
CfA Postdoctoral Fellowship 2010
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street, MS 67
Cambridge, MA 02138
USA
Tel: 617-495-7103
FAX: 617-496-7589
URL1: http://www.cfa.harvard.edu/postdoc/
Email Submission Address: postdoc@cfa.harvard.edu
Email Inquiries: postdoc@cfa.harvard.edu

Attention: Fellowship Program Coordinator

Harvard-Smithsonian Center for Astrophysics CfA Postdoctoral Fellowship 2010

The Harvard-Smithsonian Center for Astrophysics invites applications for the 2010 CfA Postdoctoral Fellowship. Intended for recent Ph.D. recipients who do not already have extensive postdoctoral experience, one or more of these appointments will be made to an outstanding researcher–or researchers–displaying significant promise in theory, observation, instrumentation, and/or laboratory experiment.

The CfA combines the resources and research facilities of the Harvard College Observatory and the Smithsonian Astrophysical Observatory under a single director. Now organized in six research divisions–Atomic and Molecular Physics; High Energy Astrophysics; Optical and Infrared Astronomy; Radio and Geoastronomy; Solar, Stellar, and Planetary Sciences; and Theoretical Astrophysics–nearly 350 Smithsonian and Harvard scientists work cooperatively in an environment that welcomes the ideas and contributions of young scientists.

The facilities include the MMT (Fred Lawrence Whipple Observatory, Arizona), Magellan (Las Campanas Observatory, Chile), and other optical and infrared telescopes; radio telescopes, especially the Submillimeter Array on Mauna Kea, Hawaii; a large Beowulf cluster and network of workstations; a number of specialized laboratories; an outstanding library; and access to data from a wide range of space missions, especially the Chandra X-ray Observatory and the Spitzer Space Telescope.

Appointments are for 2 years, with renewal for a third year likely, contingent upon satisfactory progress. The stipend for 2010–2011 will be approximately $60,500 with a research budget of $16,000. Funds are also provided for health benefits and relocation expenses. Only applicants who receive their degrees between July 1, 2009, and September 1, 2010, will be considered.

Application forms and instructions are available at http://www.cfa.harvard.edu/postdoc/ . Applications are due by October 30, 2009. Offers will be made by December 18, 2009. The Harvard-Smithsonian Center for Astrophysics is an Equal Opportunity/Affirmative Action Employer where all qualified applicants receive consideration for employment without regard to race, creed, color, sex or national origin.

Funds are provided for health benefits and relocation. A research budget of $16,000 is also provided.

No. 25772 (New)
W. J. McDonald Postdoctoral Fellowship
MCDONALD OBSERVATORY (UT AUSTIN)
The University of Texas at Austin
1 University Station C1402
Austin, TX 78712-0259
USA
Tel: 512/471-3300
FAX: 512/471-1635
URL1: http://www.as.utexas.edu/mcdonald/mcdonald.html *(McDonald Observatory web site)*
URL2: http://www.as.utexas.edu/astronomy/people/fellowships.html *(Astronomy Program Fellowships web site)*
Email Submission Address: director@astro.as.utexas.edu
Email Inquiries: director@astro.as.utexas.edu

Attention: David L. Lambert, Director

The University of Texas McDonald Observatory announces competition for the W. J. McDonald Postdoctoral Fellowship. This Fellowship is restricted to new Ph.D. graduates without previous postdoctoral experience. This position is in conjunction with the Texas Cosmology Center (TCC; information is available at: http://www.tcc.utexas.edu), which is a newly established research unit at The University of Texas at Austin. The applicant's research interest may be in broad areas in astronomy and astrophysics related to cosmology, such as dark matter, dark energy, structure formation, and early universe. The observing facilities of McDonald Observatory available for research include the 9.2-m Hobby-Eberly Telescope, the 2.7-m Harlan J. Smith Telescope, the 2.1-m Otto Struve Telescope, and the 0.8-m wide-field imaging telescope. Access to the robotic ROTSE and MONET telescopes is also available, and McDonald Observatory supports a program in millimeter wavelength research with the Caltech Submillimeter Observatory on Mauna Kea. Information on research and facilities is available at http://www.as.utexas.edu/ . The Fellowship has a three year term and includes funding of $8,000 per year for research expenses, including travel. Additional funds are available for publication expenses related to work completed during the Fellow's tenure, and for relocation expenses. Initial appointment will be for one year beginning September 2010, with the expectation of renewal for a second and third year following satisfactory research performance. Candidates are expected to hold a Ph.D. upon arrival and to reside in Austin.

Applicant's should submit a resumé, a statement of proposed research to be conducted at UT Austin during the Fellowship, and letters of recommendation from three scientists familiar with the applicant's research by December 4, 2009. EOE/AAE.

If sending application materials via regular post, please use the submission address listed above. To submit application materials via express mail, please us the following address instead:

Attn. David L. Lambert Department of Astronomy The University of Texas at Austin 2511 Speedway, RLM 15.306 Austin, TX 78712

The University of Texas at Austin offers a choice of retirement plans: the Texas Teacher Retirement System or the Optional Retirement System (with six providers from which to choose; for more information, please see http://www.utexas.edu/hr/current/retirement/). The University also contributes a monthly amount towards the cost of insurance premiums for medical insurance. All benefits-eligible employees receive $10,000 basic term life and $10,000 basic Personal Accident Insurance at no cost to them. The employee would be responsible for the cost of any other fringe benefits options. Full information on available University services and resources is provided at the New Employee Welcome and Orientation (NEWO) offered by Human Resource Services. New employees have 31 calendar days from their hire date to enroll for insurance coverage. For additional information on employee benefits, please see the HRS-Benefits home page at http://www.utexas.edu/hr/current/insurance .

No. 25773 (New)
Giacconi Fellowship
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
Email Inquiries: gfinquiry@stsci.edu

Attention: Dr. Ron Allen

The Space Telescope Science Institute invites applications for the 2010 Giacconi Postdoctoral Fellowship, named in honor of the first director of STScI and Nobel prize winner Riccardo Giacconi.

The Giacconi Fellowship provides up to three years of support for outstanding postdoctoral researchers in any field of astronomy, astrophysics, or planetary science. The research may be theoretical, observational, or instrumental. The fellowship includes a salary of approximately $59,000, generous benefits, and $16,000 per year to cover research expenses. The selection will be based on the accomplishments and proposed research of the applicants. There are no restrictions on citizenship or date of PhD degree.

The Announcement of Opportunity, which includes a description of the materials required as well as instructions both for the applicants and for their referees, will be available at the web site:

http://www.stsci.edu/institute/org/spd/giacconi-fellowship Applicants and referees are requested to follow the instructions for uploading their materials using the STScI Giacconi Fellowship web interface as described in that Announcement. The deadline for applications is Thursday, November 5, 2009. Letters of reference are due by Thursday, November 12, 2009. Offers will be made before February 1, 2010, and new appointments are expected to begin on or about September 1, 2010.

Inquiries about the Giacconi Fellowship may be directed to Dr. Ron Allen (gfinquiry@stsci.edu).

The Space Telescope Science Institute is operated by the Association of Universities for Research in Astronomy, and is an affirmative action, equal opportunity employer. Women and members of minority groups are strongly encouraged to apply. EOE/AA/M/F/D/V.

Medical/Vision/Dental Coverage Tuition Reimbursement Ritirement Plans Life Insurance Short-Term and Long-Term Disability Flexible Spending Accounts Vacation/Holiday/Sick Leave

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No. 25774 (New)
Hubble Fellow
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
Email Inquiries: hfinquiry@stsci.edu

Attention: Dr. Ron Allen

The Space Telescope Science Institute announces the 20TH year of the Hubble Postdoctoral Fellowship Program and solicits applications for fellowships to begin in the fall of 2010.

The Hubble Fellowships support outstanding recent postdoctoral scientists to conduct independent research that is broadly related to the NASA Cosmic Origins scientific goals as addressed by any of the missions in this program: the Hubble Space Telescope, Spitzer Space Telescope, Stratospheric Observatory for Infrared Astronomy (SOFIA), the Herschel Space observatory, and the James Webb Space Telescope.

The research may be theoretical, observational, or instrumental. This program is open to applicants of any nationality who have earned (or will have earned) their doctoral degrees on or after January 1, 2007, in astronomy, physics, or related disciplines. The fellowships are tenable at U.S. host institutions of the fellows' choice, subject to a maximum of one new fellow per host institution per year. The duration of the fellowship is up to three years: an initial one-year appointment and two annual renewals contingent on satisfactory performance and availability of NASA funds.

The Announcement of Opportunity, which includes detailed program policies as well as instructions both for the applicants and for their referees, will be available at the web site:

http://www.stsci.edu/institute/org/spd/hubble-fellowship

Applicants and referees must follow the instructions for uploading their materials using the STScI Hubble Fellowships web interface as described in that Announcement. The deadline for applications is Thursday, November 5, 2009. Letters of reference are due by Thursday, November 12, 2009. Offers will be made before February 1, 2010, and new appointments are expected to begin on or about September 1, 2010.

Inquiries about the Hubble Fellowships may be directed to Dr. Ron Allen (hfinquiry@stsci.edu).

Women and members of minorities are strongly encouraged to apply; EOE/AA/M/F/D/V.

No benefits information has been provided by the employer.

No. 25775 (New)
ESO Fellowship Programme 2009/2010
ESO - EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE
Karl-Schwarzschild-Str. 2
Garching near Munich, Bavaria 85748
Germany
Tel: +49 89 3200 6865
FAX: +49 89 3200 6497
URL1: https://jobs.eso.org/ESOCP370/documents/DOC0000241.PDF
Email Submission Address: vacancy@eso.org
Email Inquiries: vacancy@eso.org

Attention: Human Resources, Human Resources

The European Organisation for Astronomical Research in the Southern Hemisphere awards several postdoctoral fellowships each year. The goal of these fellowships is to offer young outstanding scientists opportunities and facilities to enhance their research programmes in close contact with the activities and staff at one of the world's foremost observatories.

In addition to pursuing independent research, all fellows have ample opportunities for scientific collaboration both in Garching and Santiago.

In Garching, the fellowships start with an initial contract of one year followed by a two-year extension (3 years total). The ESO Headquarters in Garching near Munich, Germany, is located in one of the most active research areas with among the highest concentration of astronomers in Europe. Furthermore, ESO is currently participating in the newly formed Excellence Cluster on Astrophysics with the Max Planck Institute at the Garching Campus. In addition to the excellent scientific environment that will allow to develop their scientific skills, as part of the diverse training ESO offers, fellows are encouraged to take part for up to 25% of their time in some functional work related to instrumentation, operations support, archive/virtual observatory, VLTI, ALMA, ELT, public affairs, or science operations at the Observatory in Chile.

In Chile, the fellowships are granted for one year initially with an extension of three additional years (4 years total). During the first three years, the fellows are assigned to one of the operations groups on Paranal, ALMA or APEX. Fellows contribute to the operations at a level of 80 nights per year at the Observatory.

Apart from opportunities for scientific interactions within ESO, fellows have the opportunity to collaborate with the rapidly growing Chilean astronomical community as well as with astronomers at other international observatories located in Chile. The anticipated 2010 completion of the new ALMA building next to ESO's Santiago offices will further enhance the stimulating scientific environment available to ESO Chile fellows.

During the fourth year there is little or no functional work and several options are provided. The fellow may be hosted by a Chilean institution (and will thus have access to all telescopes in Chile via the Chilean observing time). Alternatively, she/he may choose to spend the fourth year either at ESO's Astronomy Centre in Santiago, or at the ESO Headquarters in Garching, or at any institute of astronomy/astrophysics in an ESO member state.

The programme is open to applicants who will have achieved their PhD in astronomy, physics or related discipline before 1 November, 2010. Young scientists from all astrophysical fields are welcome to apply. For all fellowships, scientific excellence is the prime selection criterion.

We offer an attractive remuneration package including a competitive salary and allowances (tax-free), comprehensive social benefits, and provide financial support for relocating families. The closing date for applications is 15 October 2009.

Please apply by completing the web application form available at http://jobs.eso.org .

No benefits information has been provided by the employer.

No. 25776 (New)
ESO ALMA Fellowship Programme 2009/2010
ESO - EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE
Karl-Schwarzschild-Str. 2
Garching near Munich, Bavaria 85748
Germany
Tel: +49 89 3200 6865
FAX: +49 89 3200 6497
URL1: https://jobs.eso.org/ESOCP370/documents/DOC0000240.PDF
Email Submission Address: vacancy@eso.org
Email Inquiries: vacancy@eso.org

Attention: Human Resources, Human Resources

The European Organisation for Astronomical Research in the Southern Hemisphere awards several postdoctoral fellowships each year. The goal of these fellowships is to offer young outstanding scientists opportunities and facilities to enhance their research programmes by facilitating close contact with the

activities and staff at one of the world's foremost observatories.

With ALMA becoming operational in a few years, ESO offers additional ALMA Fellowships - funded by the Marie-Curie COFUND Programme of the European Community - to complement its regular fellowship programme. Applications by young astronomers with expertise in mm/sub-mm astronomy are encouraged.

Fellowships last three years, starting first with an initial contract of one year followed by a two year extension. In addition to the excellent scientific environment that will allow to develop their scientific skills, as part of the diverse training ESO offers, Fellows are encouraged to take part in some functional work related to ALMA (in instrumentation, operations, public relations, etc.) for up to 25% of their time.

For all Fellowships, scientific excellence is the prime selection criterion. The selected candidates may choose to work at one of the European institutes hosting an ALMA Regional Centre node (Bologna, Bonn, Grenoble, Leiden, Manchester, Onsala), or at ESO in Garching. Following the mobility rules of the Marie Curie programme some restrictions may apply: a fellow cannot be hosted by an institution if he/she has spent more than 12 months in the same country as the selected ARC node over the last three years.

The programme is open to applicants who have earned (or will have earned) before November 1, 2010, their PhD in astronomy, physics, or related disciplines. Young scientists from all astrophysical fields are welcome to apply.

We offer an attractive remuneration package including a competitive salary (tax-free), comprehensive social benefits, and provide financial support for relocating families.

The closing date for applications is 1 November 2009.

Please apply by completing the web application form available at http://jobs.eso.org .

No benefits information has been provided by the employer.

No. 25781 (New)
Postdoctoral position in Distance Scale research
UNIVERSIDAD DE CONCEPCION, CHILE
Barrio Universitario
Chile
Tel: 56-41-2203103
FAX: 56-41-2224520
Email Submission Address: wgieren@astro-udec.cl
Email Inquiries: wgieren@astro-udec.cl

Attention: Wolfgang Gieren, Professor

The Astronomy Department of the Universidad de Concepcion advertises a postdoctoral position initially granted for three years, with possibility of extension. We seek a strongly motivated young person who will work with the distance scale group at our Department. Observational experience and interest is expected, as well as a solid background in data reduction (photometry and high-resolution spectroscopy). New ideas and projects in the distance scale area using optical/near-IR and/or radio instrumentation available in Chile would be a clear advantage. The position is available starting September 1, 2009.

The Universidad de Concepcion is the largest chilean university outside Santiago. Its Astronomy Department has been founded in 2008 and currently has seven professors and nine postdoctoral fellows who are very active and productive in research in a variety of areas. The successful candidate will have full access to the 10% observing time reserved to chilean institutions at all telescopes operating in Chile. Salary will be 17 million pesos per year, corresponding to about USD 32,000. Research money is available for computer purchasing, and one trip per year to a international conference.

Concepcion is located in a beautiful area in southern Chile, very close to the pacific coast.

Interested candidates should submit their CV, publication list and statement of research interests to Dr. Wolfgang Gieren at wgieren@astro-udec.cl. They should arrange for two letters of reference which should be sent per email to Dr. Gieren.

No benefits information has been provided by the employer.

No. 25782 (New)
Carnegie Postodoctoral Research Fellowship in Astronomy
CARNEGIE OBSERVATORIES
813 Santa Barbara Street
Pasadena, CA 91101
USA
Tel: 626-304-0257
FAX: 626-304-0266
URL1: www.ociw.edu
Email Submission Address: http://www.ociw.edu/fellowships/
Email Inquiries: cfellow@ociw.edu

Attention: Dr. John Mulchaey, Staff Astronomer

We invite applications for The Carnegie Fellowship at the Carnegie Observatories in Pasadena, California, to begin September 2010.

The fellowship is intended to encourage long-term research in observational or theoretical astronomy and/or instrumentation. We are particularly interested in applicants who have received their Ph.D. degree within the past three years. Fellowships are awarded for one year and may be renewed for two additional years. The successful applicant must have completed the Ph.D. requirements before assuming the fellowship.

Carnegie observing facilities include the two 6.5-meter Magellan telescopes, the 2.5-meter du Pont telescope and the Swope 1.0-meter telescope all at Las Campanas, Chile. Fellows will have access to these facilities on the same basis as the scientific staff. The Carnegie Fellowship provides ample support for observing, travel, computing, and publications.

The application should include a curriculum vitae, bibliography, a brief essay describing the applicant's current research, and a research proposal based on the facilities available at the Observatories. These materials must be submitted via the web to http://www.ociw.edu/fellowships/ by November 15, 2009. In addition, applicants should arrange for three letters of reference to be emailed to cfellow@ociw.edu by the deadline. APPLICANTS ARE STRONGLY ENCOURAGED TO ATTEND THE WINTER AAS MEETING FOR INTERVIEWS, as these play an important role in the selection. E-mail inquiries may be sent to Dr. John Mulchaey at cfellow@ociw.edu.

All applications for the Carnegie-Princeton fellowship will also be considered for this fellowship. It is not necessary to submit a separate application.

The Carnegie Institution of Washington is an Equal Opportunity Employer

Medical benefits provided.

No. 25783 (New)
Carnegie-Princeton Postdoctoral Research Fellowship
CARNEGIE OBSERVATORIES AND PRINCETON UNIVERSITY
813 Santa Barbara Street
Pasadena, CA 91101
USA
Tel: 626-304-0257
FAX: 626-304-0266
URL1: http://www.ociw.edu/fellowships
URL2: http://www.astro.princeton.edu/job_opportunities/dept_jobs.htm
Email Submission Address: c-pfellow@ociw.edu
Email Inquiries: c-pfellow@ociw.edu

Attention: Dr. John Mulchaey, Staff Astronomer

The Observatories of the Carnegie Institution of Washington and the Department of Astrophysical Sciences of Princeton University invite applications for a four-year postdoctoral fellowship in astronomy, to begin in September, 2010. The Fellow is expected to work the two first years at the main offices of the Observatories in Pasadena and the last two years at Princeton.

The Carnegie-Princeton Fellow is expected to carry out original research in any area of astronomy or astrophysics, either independently or in collaboration with staff, faculty or students at the host institutions. The principal selection criteria will be outstanding research accomplishments and promise of future achievement, although preference will be given to researchers working in those areas in which Carnegie and Princeton have active research interests.

The Fellow will have access to all of the resources and facilities of both institutions. In particular, Carnegie operates the Las Campanas Observatory in Chile, which includes the twin 6.5-meter Magellan telescopes, the 2.5-meter Dupont and 1.0-meter Swope telescopes, and provides an excellent environment for observational astrophysics and cosmology. The Department of Astrophysical Sciences at Princeton is a major partner in the Apache Point Observatory, the Sloan Digital Sky Survey, the Wilkinson Microwave Anisotropy Probe, the Atacama Cosmology Telescope, and the Large Synoptic Survey Telescope, and is collaborating with the Japanese astronomical community on large surveys with the Subaru Telescope. Together with research groups in the Physics Department and the nearby Institute for Advanced Study, the department offers an unparalleled environment for research in theoretical astrophysics and cosmology. The fellowship provides support for observing, travel, computing and publications, and the observing facilities will be accessible for the entire duration of the fellowship.

Further information on the host institutions is available at http://www.ociw.edu/ and http://www.astro.princeton.edu .

Applicants should send a curriculum vitae, bibliography, and research plan to BOTH the Observatories and to Princeton via the web at http://www.ociw.edu/fellowships/ AND http://jobs.princeton.edu by November 15, 2009.

The research plan should address how the applicant intends to use the resources and facilities available at both host institutions. Selection of the successful candidate will be made by a joint Carnegie-Princeton committee. All applicants will automatically be considered for all postdoctoral positions in the Astrophysical Sciences department at Princeton and for the Carnegie Fellowship at The Observatories; however, they should clearly state in the cover letter that they wish to be considered for the Carnegie-Princeton Fellowship.

Applicants must also arrange for three letters of reference to be submitted to BOTH Carnegie Observatories via e-mail (c-pfellow@ociw.edu) AND Princeton University via the online application. The Carnegie Institution of Washington is an Equal Opportunity Employer. Princeton University is an Equal Opportunity Employer and complies with applicable EEO and Affirmative Action regulations.

For questions or additional information, please send email to c-pfellow@ociw.edu and/or postapp10@astro.princeton.edu . For additional information on the fellowship program at Carnegie, please visit: http://www.ociw.edu/fellowships/ . For additional information on positions in the Astrophysical Sciences department at Princeton, please visit http://www.astro.princeton.edu/job_opportunities/dept_jobs.htm . For information about voluntary self-identification, please link to: http://www.princeton.edu/dof/about_us/dof_job_openings .

No benefits information has been provided by the employer.

No. 25784 (New)
Plaskett Fellowship
NATIONAL RESEARCH COUNCIL CANADA - HERZBERG INSTITUTE OF ASTROPHYSICS
Tel:
URL1: http://www.nrc-cnrc.gc.ca/eng/ibp/hia/fellowship/plaskett/index.html
Email Inquiries: plaskett@nrc-cnrc.gc.ca

Attention: Competition 40-09-20

PLASKETT FELLOWSHIP, NATIONAL RESEARCH COUNCIL of CANADA (NRC) NRC Herzberg Institute of Astrophysics (NRC-HIA) Dominion Astrophysical Observatory (DAO) 5071 West Saanich Road Victoria, BC V9E 2E7 CANADA Fax: 250-363-8766 Telephone: 250-363-0050 E-mail enquiries: plaskett@nrc-cnrc.gc.ca

Related URL: http://www.nrc-cnrc.gc.ca/eng/ibp/hia/fellowship/plaskett/index.html

The NRC-HIA invites applications for Plaskett Fellowships tenable at DAO. The awards are made to outstanding recent doctoral graduates in astrophysics or a closely related discipline to conduct independent research in a stimulating, collegial environment. The award is for a maximum of three years; the initial appointment of two years may be extended for one further year (subject to performance and availability of funds). In addition to highly competitive benefits and salary, Fellows receive support for observing and conference travel, page charges, and access to professionally managed computers and the Canadian Astronomy Data Centre, which is home to the Canadian Virtual Observatory and data archives from, e.g., CFHT, CGPS, HST, Gemini, JCMT.

Staff expertise is in observational astrophysics, but we welcome applications from theoreticians whose research requires close interaction with observers. Fellows are eligible to apply for Canadian time on CFHT, Gemini & JCMT, to use the optical and radio telescopes operated by NRC-HIA in Victoria and Penticton, and/or to apply for time on other facilities with open proposal processes. NRC-HIA is a leading developer of instrumentation for ground and space-based telescopes (e.g., ALMA, CFHT, Gemini, JCMT, JWST, TMT), and Fellows are welcome to participate in development or commissioning of new instruments.

Applicants must have acquired their Ph.D. within the last five years or expect to obtain the degree before taking up the Fellowship in 2010. Applications should be made by 2 November 2009, via the process described at the URL provided.

NRC is an equal opportunity employer.

Vous pouvez obtenir ces renseignements en français au site web indiqué ci-haut.

No benefits information has been provided by the employer.

No. 25786 (New)
Postdoctoral Fellowships at the American Museum of Natural History
AMERICAN MUSEUM OF NATURAL HISTORY
Department of Astrophysics
79th Street at Central Park West
New York, NY 10024-5192
USA
Tel: 212-313-7441
FAX: 212-769-5007
URL1: http://research.amnh.org/astrophysics/
Email Submission Address: gking@amnh.org
Email Inquiries: mordecai@amnh.org

Attention: Gwen King, Administrative Assistant

The Department of Astrophysics at the American Museum of Natural History invites applications for postdoctoral fellowships. The positions have a term of two years (with extensions dependent on development of additional funding). Fellowships may be available in all topics of interest to the department, including: theoretical and computational modeling of planet formation, star formation, the interstellar medium, and galaxy formation; coronagraphic instrumentation for exoplanet detection; comparative exoplanetary science; brown dwarfs: atmospheres, dynamics and mass function; debris disk chemistry; astrometric surveys; N body simulations of globular clusters; surveys for cataclysmic binaries and Wolf-Rayet stars in nearby galaxies and in the Milky Way. Opportunities may exist for collaboration with outreach and education efforts of the Museum as well.

The department has an instrumentation laboratory and substantial computing resources, including access to the Museum's 128 and 256-processor clusters, sole use of a 40 processor SunFire cluster, and five teraflops GRAPE 6 boards. Roughly ten postdoctoral fellows and graduate students reside in the department on average. We maintain close ties with Columbia University and other research institutes in the NYC area.

Applicants should send a vita, list of publications, and statement of research interests in PDF format to gking@amnh.org, and arrange for three letters of recommendation to be sent directly to the same address. Consideration of application materials will begin on 20 October 2005. Top candidates will be requested to prepare Scientific American level research statements by November 15 for consideration by the Museum-wide Grants & Fellowships committee. The Museum is an equal opportunity/affirmative action employer.

A full benefits package including medical insurance is provided. The cost of insurance depends on family status.

No. 25791 (New)
Postdoctoral fellowship positions at ASTRON (Dwingeloo, the Netherlands)
ASTRON
Oude Hoogeveensedijk 4
Dwingeloo, NL 7991 PD
The Netherlands
Tel: +31521595100
FAX: +31521595101
URL1: www.astron.nl
Email Submission Address: personnel@astron.nl
Email Inquiries: morganti@astron.nl

Attention: Ms. Diana Verweij, Head of Human Resources

Post-doctoral fellowship positions at ASTRON (Dwingeloo, the Netherlands) Deadline: October 15, 2009

The Astronomy Group at ASTRON (the Netherlands Institute for Radio Astronomy) invites applications for Post-doctoral fellowship positions. These positions offer exciting opportunities for innovative research in radio astronomy, using world-class instruments such as the new Low Frequency ARray (LOFAR), the Westerbork Synthesis Radio Telescope (WSRT) and the European VLBI Network (EVN). These post-doctoral fellowships are 2+1 year appointments open to researchers with a PhD degree in astronomy, astrophysics or related discipline. The successful candidates will be expected to carry out innovative research in their own field of expertise, as well as participate in research carried out by the Astronomy Group, using available or planned ASTRON telescope facilities and other world-class astronomical instruments. Research interest and experience in observational radio astronomy is desirable, but candidates with other backgrounds are also encouraged to apply. Affinity with instrumentation or software is also valued.

ASTRON is building LOFAR, a cutting-edge, low-frequency, multi-field aperture array telescope that is using innovative technologies and novel software approaches. This telescope has very recently started producing unique data in the relatively unexplored spectral window below 200 MHz. ASTRON also operates the WSRT. APERTIF (APERture Tile in Focus), a next generation observing system using focal plane array technology, is being developed for the WSRT in order to significantly expand its field of view, enabling new types of astronomical research. The WSRT also participates in the European and Global VLBI Networks (including e-VLBI) and ASTRON hosts the Joint Institute for VLBI in Europe (JIVE). ASTRON has an international reputation for the design and construction of future large radio telescopes (e.g. SKA) and is heavily involved in developing parallel and Grid computing techniques for radio astronomy. Together with other international partners, ASTRON is currently building a prototype dense aperture array (EMBRACE), which will soon be commissioned.

Astronomers at ASTRON are active in many frontline research areas: galaxy structure and evolution, the ISM and IGM, pulsars and compact objects, the transient radio sky, AGN evolution and studies of the magnetic universe, large radio continuum and HI surveys, deep fields, and gravitational lensing. They are also heavily involved in the commissioning of LOFAR, active in all LOFAR key science projects and involved in preparing for the wide-field astronomy that will be made possible with instruments like APERTIF. Successful candidates will be encouraged to be involved in exploiting these new facilities. Other front-line research facilities available to Dutch astronomers include the ESO-VLT(I), ALMA, JCMT and the ING telescopes.

Letters of application should be sent to personnel@astron.nl before the deadline of 15 October 2009. Your application should include a CV, scientific interests, a research proposal and three letters of reference. Successful candidates will be in the formal employment of the Netherlands Organisation for Scientific Research (NWO), at a salary scale commensurate with age and experience. Generous relocation expenses, as well as an excellent package of benefits and assistance with finding accommodation will be provided (see also www.astron.nl/about-astron/careers/careers). Applicants of any nationality are eligible to apply. A good command of the English language (writing and speaking) is essential. Your work place is the ASTRON headquarters, located in Dwingeloo (the Netherlands). Collaboration is encouraged with the nearby university astronomy departments in Amsterdam, Groningen, Leiden, Nijmegen and Utrecht. Successful candidates will have access to excellent computational facilities and travel support. For enquiries please contact: Dr. Raffaella Morganti (morganti@astron.nl), head of the Astronomy Group.

No benefits information has been provided by the employer.

No. 25792 (New)
Post-doctoral researcher on high-resolution radio astronomy at ASTRON (Dwingeloo, the Netherlands)
ASTRON
Oude Hoogeveensedijk 4
Dwingeloo, NL 7991 PD
The Netherlands
Tel: +31521595100
FAX: +31521595101
URL1: www.astron.nl
Email Submission Address: personnel@astron.nl
Email Inquiries: garrett@astron.nl

Attention: Ms. Diana Verweij, Head of Human Resources

Post-doctoral researcher on high-resolution radio astronomy at ASTRON (Dwingeloo, the Netherlands) Deadline: October 15, 2009

A post-doctoral position is available to collaborate closely with the General Director of ASTRON (the Netherlands Institute for Radio Astronomy), Prof. Michael Garrett, as part of a special research programme funded by NWO. This position offers exciting opportunities for innovative research in radio astronomy, using world-class instruments such as the new Low Frequency ARray (LOFAR), the Westerbork Synthesis Radio Telescope (WSRT) and the European (and global) VLBI Network (EVN). The fellowship is a 2+1 year appointment open to a researcher with a PhD degree in astronomy, astrophysics or a related discipline. The successful candidate will be expected to carry out innovative research in areas that include: (i) High resolution, deep field surveys, (ii) Gravitational Lensing, (iii) advanced techniques in (low-frequency) VLBI, and (iv) the study of transient sources with e-VLBI. The successful candidate will also have considerable freedom to pursue his/her own scientific interests. A background in radio astronomy is highly desirable for this position, but candidates from other backgrounds are also encouraged to apply.

ASTRON is building LOFAR, a cutting-edge, low-frequency, multi-field aperture array telescope that is using innovative technologies and novel software approaches. This telescope has very recently started producing unique data in the relatively unexplored spectral window below 200 MHz. ASTRON also operates the WSRT. APERTIF (APERture Tile in Focus), a next generation observing system using focal plane array technology, is being developed for the WSRT in order to significantly expand its field of view, enabling new types of astronomical research. The WSRT also participates in the European and Global VLBI Networks (including e-VLBI) and ASTRON hosts the Joint Institute for VLBI in Europe (JIVE). ASTRON has an international reputation for the design and construction of future large radio telescopes (e.g. SKA) and is heavily involved in developing parallel and Grid computing techniques for radio astronomy. Together with other international partners, ASTRON is currently building a prototype dense aperture array (EMBRACE), which will soon be commissioned.

The successful candidate will be part of the Astronomy Group, which is the primary group undertaking fundamental astronomical research at ASTRON. Astronomers at ASTRON are active in many frontline research areas: galaxy structure and evolution, the ISM and IGM, pulsars and compact objects, the transient radio sky, AGN evolution and studies of the magnetic universe, large radio continuum and HI surveys, deep fields, and gravitational lensing. They are also heavily involved in the commissioning of LOFAR, active in all LOFAR key science projects and involved in preparing for the wide-field astronomy that will be made possible with instruments like APERTIF. Other front-line research facilities available to Dutch astronomers include the ESO-VLT(I), ALMA, JCMT and the ING telescopes.

Letters of application should be sent to personnel@astron.nl before the deadline of 15 October 2009. Your application should include a CV, scientific interests, a research proposal and three letters of reference. The successful candidate will be in the formal employment of the Netherlands Organisation for Scientific Research (NWO), at a salary scale commensurate with age and experience. Generous relocation expenses, as well as an excellent package of benefits and assistance with finding accommodation will be provided (see also www.astron.nl/about-astron/careers/careers). Applicants of any nationality are eligible to apply. A good command of the English language (writing and speaking) is essential. Your work place will be the ASTRON headquarters, located in Dwingeloo (the Netherlands). Collaboration is encouraged with the nearby university astronomy departments in Amsterdam, Groningen, Leiden, Nijmegen and Utrecht. The successful candidate will have access to excellent computational facilities and travel support. For enquiries please contact: Prof. Michael Garrett (garrett@astron.nl), ASTRON General Director.

No benefits information has been provided by the employer.

No. 25797 (New)
Cosmology Postdoctoral Fellow
LAWRENCE BERKELEY NATIONAL LABORATORY
1 Cyclotron Road
Berkeley, CA 94720
USA
Tel: NA
FAX: NA
URL1: http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23399&p=1
Email Submission Address: Apply Online Only

Attention: Arlene Miller

The Physics Division at the Lawrence Berkeley National Laboratory invites applications for a Postdoctoral Fellow in observational or theoretical cosmology.

Our cosmology research uses astrophysical/cosmological observations to explore fundamental physics. Our current program includes leadership of, or major roles in, JDEM, SCP, SNfactory, PTF, BOSS, BigBOSS, DES, and Planck. We also have strong efforts in theory and computation/analysis. LBNL is part of a rich and vital cosmology and astrophysics program in Berkeley including also the Berkeley cosmology group (http://cosmology.lbl.gov), and the Berkeley Center for Cosmological Physics (http://bccp.lbl.gov).

The Cosmology Postdoctoral Fellow is appointed for two years with the possibility of a renewal for a third year. Candidates should have a recent Ph.D. in physics, astrophysics, or astronomy.

In addition to a competitive salary, the position includes ample funds for travel and other research expenses.

Please apply at http://jobs.lbl.gov/LBNLCareers/details.asp?jid=23399&p=1 and reference “Internet” and “American Astronomical Society” as your source.

Berkeley Lab is an affirmative action/equal opportunity employer committed to the development of a diverse workforce.

Visit www.lbl.gov for more information.

No. 25798 (New)
YCAA Prize Postdoctoral Fellowship

YALE UNIVERSITY
P.O. Box 20820
New Haven, CT 06520-8120
USA
Tel: 203-432-3651
FAX: 203-432-8552
URL1: http://www.yale.edu/physics *(Yale University, Department of Physics)*
URL2: http://www.yale.edu/ycaa *(Yale Center for Astronomy & Astrophysics)*
URL3: http://www.astro.yale.edu *(Yale University, Department of Astronomy)*
Email Submission Address: pamela.bosward@yale.edu
Email Inquiries: daisuke.nagai@yale.edu

Attention: Pamela Bosward, Executive Assistant to the Chair

YALE UNIVERSITY, DEPARTMENT OF PHYSICS

Submit Applications To: pamela.bosward@yale.edu Attention: Pamela Bosward, Executive Assistant to the Chair, YCAA Prize Postdoctoral Fellowship Selection Committee Yale University, Department of Physics P.O. Box 208120 New Haven, CT 06520-8120 USA Tel: 203-432-3651 Fax: 203-432-8552

URL1: http://www.yale.edu/physics (Yale University, Department of Physics) URL2: http://www.yale.edu/ycaa (Yale Center for Astronomy & Astrophysics) URL3: http://www.astro.yale.edu (Department of Astronomy)

Email Submission Address: pamela.bosward@yale.edu Email Inquiries: daisuke.nagai@yale.edu The closing date for receipt of applications: 11/08/2009

The Yale Center for Astronomy and Astrophysics invites applications for the YCAA Postdoctoral Prize Fellowship in Astronomy and Astrophysics, to be awarded to a young scientist of exceptional ability who will have received her/his Ph.D. by June 2010 in observational, theoretical, or experimental astronomy or astrophysics/cosmology. The Fellowship is for three years (renewed annually subject to performance), and offers competitive salary ($60,000), benefits, and research funds.

Conveniently located between New York City and Boston, Yale offers a lively intellectual environment and access to world-class astronomical facilities, including the Keck, WIYN and SMARTS telescopes, and to Chilean telescopes through collaboration with the Univ. de Chile, as well as High-Performance Computing facilities. The YCAA Prize Postdoctoral Fellow will be free to carry out his/her own research program, although preference will be given to research interests that align with those of the Yale astrophysics faculty (see www.yale.edu/ycaa/membership.html). Active research at Yale includes solar astrophysics, nuclear astrophysics, astrometry, star formation, stellar evolution, galactic structure, black holes, local group galaxies, high-energy astrophysics, multiwavelength surveys (QUEST, GOODS, COSMOS, MUSYC, SDSS), active galaxies and blazars, galaxy evolution, galaxy clusters, large-scale structure, gravitational lensing, dark matter, dark energy, and cosmology.

Applicants should send their curriculum vitae, bibliography, and a brief description of the anticipated research program by November 8, 2009 to the address above. Email submission as a pdf is strongly preferred. Candidates should also arrange for at least 3 letters of recommendation to arrive by November 8. Fellowship candidates will automatically be considered for any open postdoctoral positions at Yale in their fields of interest, unless they ask to be considered only for the YCAA Prize Postdoctoral Fellowship. Yale is an Affirmative Action/ Equal Opportunity Employer, and we particularly encourage applications from women and members of minority groups.

Medical insurance, maternity leave (unpaid), dental insurance offered at $43.30 a person

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No. 25799 (New)
Postdoctoral Research in the Institute for Theory and Computation
HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS
Tel:
URL1: http://www.cfa.harvard.edu/opportunities/fellowships/itc/
Email Inquiries: itcpostdoc@cfa.harvard.edu

Attention: Gregory White, ITC Coordinator

Postdoctoral Research Positions INSTITUTE FOR THEORY AND COMPUTATION HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS Applications are invited for Postdoctoral Research Positions in the Institute for Theory and Computation (ITC) at the Harvard-Smithsonian Center for Astrophysics. One of the primary objectives of the ITC is to integrate conceptual theory with computational modeling. We are, therefore, interested in candidates working in any field related to theoretical and/or numerical astrophysics. Successful candidates will have access to our new computing facilities and will have the opportunity to interact and work with researchers in both the Harvard College Observatory (HCO) and the Smithsonian Astrophysical Observatory (SAO). Current senior members of the ITC include Harvard faculty Doug Finkbeiner, Lars Hernquist, Avi Loeb, Ramesh Narayan, George Rybicki, Dimitar Sasselov, Irwin Shapiro, Alicia Soderberg, and Chris Stubbs, as well as SAO scientists Rosanne Di Stefano, Matt Holman, and Mike Lecar. The nominal starting date is September 1, 2010, but earlier appointments are possible. The positions are for two years, renewable for a third year, contingent on performance and funding. Please submit applications electronically at www.cfa.harvard.edu/opportunities/fellowships/itc/ by 17:00 EST, November 23, 2009. Further information about the ITC may be found at http://www.cfa.harvard.edu/itc/ ; please direct any questions on the application process to itcpostdoc@cfa.harvard.edu . Women and minorities are strongly encouraged to apply. AAE/EOE.

No benefits information has been provided by the employer.

No. 25800 (New)
James Webb Space Telescope Postdoctoral Fellowships at NASA's Goddard Space Flight Center
NASA POSTDOCTORAL PROGRAM
P.O. Box 117
Building SC-200, 1299 Bethel Valley Road
Oak Ridge, TN 37830
USA
Tel: 865-574-3172
FAX: 865-241-7559
URL1: http://nasa.orau.org/postdoc *(NASA Postdoctoral Program Website)*
URL2: http://www.jwst.nasa.gov *(JWST Website)*
URL3: http://www.springerlink.com/content/h2374012xk30qpw5/fulltext.pdf *(Review paper about JWST)*
Email Inquiries: jonathan.p.gardner@nasa.gov

Attention: Janeen Pointer, MS-36

The James Webb Space Telescope (JWST) Project at NASA's Goddard Space Flight Center (GSFC) invites applications through the NASA Postdoctoral Program (NPP) to carry out postdoctoral research in astrophysics or astronomical instrumentation. The applicant will work directly with one of the JWST Project Scientists and will be resident within the Astrophysics Science Division at GSFC. The science objectives of JWST include the initial formation of

galaxies in the early Universe, galaxy evolution including active galactic nuclei, star and planetary system formation, and the study of extra-Solar planets and Solar System objects. Astronomical research relevant to JWST's science goals could include theoretical studies or be based on observations taken with current space-based or ground-based facilities. Examples of interest to the JWST Project Scientists include integrated field unit (IFU) spectroscopic data analysis techniques and modeling of IFU data for diffuse nebulae and supernova remnants; ground-based research using Hadamard transform integral field spectroscopy with the IRMOS instrument (Proc. SPIE, 7249, 25, 2009); coronagraphic observations of debris disks and exoplanets and the study of transiting exoplanets focusing on surveys or spectroscopic characterization; and infrared instrumentation, including advanced detectors and optics. Additional information about JWST is available through the website http://www.jwst.nasa.gov , and from the review paper Gardner et al 2006, Space Sci. Rev. 123, 485 (astro-ph/0606175).

The next NPP Fellowship application deadline is November 1, 2009. Please contact Jonathan Gardner, jonathan.p.gardner@nasa.gov before the deadline for assistance in preparing the application. The NPP Fellowship appointment is initially for one year, and can be renewed for up to two more years based on acceptable performance and availability of funding. Appointments come with competitive stipends and a generous travel budget. Applicants will be judged on their academic accomplishments, letters of reference, and the merit of their research proposal and its relevance to NASA programs. Applications should be submitted through the NPP website at: http://nasa.orau.org/postdoc/ .

No benefits information has been provided by the employer.

No. 25801 (New)
Postdoctoral Positions
ACADEMIA SINICA INSTITUTE OF ASTRONOMY AND ASTROPHYSICS & UNIVERSITY CONSORTIUM OF ALMA-T
PO Box 23-141
Taipei, Taiwan 106
ROC
Tel: +886-2-3365200
FAX: +886-2-23677849
URL1: http://www.asiaa.sinica.edu.tw/jobopening/ ***(On-Line Submission)***
URL2: http://www.asiaa.sinica.edu.tw/ ***(ASIAA)***
URL3: http://www.sinica.edu.tw/ ***(Academia Sinica)***
Email Inquiries: asiaa@asiaa.sinica.edu.tw

Attention: Dr. Paul Ho, Director

The Academia Sinica Institute of Astronomy and Astrophysics(ASIAA) has several openings for postdoctoral positions associated with ASIAA or with UCAT (University Consortium of ALMA-Taiwan). Candidates with a PhD in any area of theoretical, observational, or instrumental astronomy are invited to apply.

ASIAA is an institute of Academia Sinica, the national research organization in Taiwan. The Institute has approximately 165 staff members (including 34 Faculty, 9 visiting scholars, 27 Postdocs,23 engineers/ Technicians, and 30 Graduate Students). Areas of research includes: the Solar System, Star Formation, Stellar Evolution, Astrochemistry, Galactic Dynamics, Active Galaxies, Galaxy Evolution, Cosmology, and instrumentation Developments. We are partners in the SMA project on Mauna Kea, have access to the Arizona 12-m and 10-m radio telescopes, and have joined the ALMA project through collaborations with Japan and North America. We participate in instrumentation development on the CFHT and Subaru Telescope. We have observing time on the CFHT and participate in the Hyper Suprime-Cam survey on the Subaru Telescope. The TAOS project is in operation on Lulin Mountain in Taiwan to conduct a survey for small objects beyond Neptune. The AMiBA is in scientific operation on Mauna Loa for the study of the CMB anisotropy and clusters of galaxies through the Sunyaev-Zel'dovich effect. Theoretical and computational astrophysics is being pursued through both ASIAA in Taipei and the TIARA in collaboration with National Tsing-Hua University. A new initiative aims to develop numerical simulators through integrative and team approaches to meet the challenges associated with upcoming instruments. A newly formed VLBI group investigates super massive black holes with sub-millimeter and space VLBIs through international collaborations. More information on each topic can be found in our Home page.

We seek scientists who actively participate in the Institute's projects, in particular: (1) optical/IR or radio astronomers to pursue research topics related to Institute interests; (2) astronomers with radio interferometry experience to participate in ongoing tests/software-development and scientific observations with the SMA, AMiBA, ALMA, or VLBI; (3) solar system and planetary astronomers to participate in the study of small objects beyond Neptune through TAOS; (4) scientists and engineers to participate in instrumentation development for Optical/IR and radio telescopes; or (5) scientists with backgrounds in astrophysics or planetary sciences to pursue topics in theoretical astrophysics, computational fluid dynamics, or MHD. More information on target areas of postdoc recruitment can be found at http://www.asiaa.sinica.edu.tw/jobopening/.

There are two types of ASIAA-funded postdoc positions: (1) ASIAA postdoc and (2) UCAT postdoc. ASIAA postdoctoral fellows are expected to work at ASIAA in Taipei in the ASIAA projects or groups. UCAT postdoctoral fellows are expected to conduct their research at a Taiwanese university (http://www.asiaa.sinica.edu.tw/links/index.html) under supervison of university faculty. Applications for the UCAT positions will be reviewed by a joint UCAT-ASIAA committee. Candidates may apply to both types of positions in one submission if they wish to do so. Application procedures, salaries, and benefits are the same for the two types of positions. The ASIAA funded postdoc appointments will initially be for two years, with possible extension for additional two years based on satisfactory performance.

Applicants should submit on-line at http://www.asiaa.sinica.edu.tw/jobopening/ (1) a curriculum vitae, (2) a brief summary of past research or instrumentation experience, and (3) a future research plan. At the time of submission, applicants will be asked to specify which type of postdoc position (ASIAA, UCAT, or both) they are applying for.

Applicants are also requested to arrange three letters of recommendation to be sent to: Email: asiaa@asiaa.sinica.edu.tw, Dr. Paul Ho, Director, ASIAA, PO Box 23-141, Taipei 10617, Taiwan; Fax: 886-2-2367-7849. Applications submitted before or on 15 December 2009 will receive full consideration for the ASIAA and UCAT postdoc positions.

Medical insurance and travel allowance are provided. Please see the Academia Sinica website for more information: http://hro.sinica.edu.tw/cbemployee/cdemployeeen.html

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No. 25802 (New)
Postdoctoral Positions
ACADEMIA SINICA INSTITUTE OF ASTRONOMY AND ASTROPHYSICS & UNIVERSITY CONSORTIUM OF ALMA-T
PO Box 23-141
Taipei, Taiwan 106
ROC
Tel: +886-2-3365200
FAX: +886-2-23677849
URL1: http://www.asiaa.sinica.edu.tw/jobopening/ ***(On-Line Submission)***
URL2: http://www.asiaa.sinica.edu.tw/ ***(ASIAA)***
URL3: http://www.sinica.edu.tw/ ***(Academia Sinica)***
Email Inquiries: asiaa@asiaa.sinica.edu.tw

Attention: Dr. Paul Ho, Director

The Academia Sinica Institute of Astronomy and Astrophysics (ASIAA) has several openings for postdoctoral positions associated with ASIAA or with UCAT (University Consortium of ALMA-Taiwan). Candidates with a PhD in any area of theoretical, observational, or instrumental astronomy are invited to apply.

ASIAA is an institute of Academia Sinica, the national research organization in Taiwan. The Institute has approximately 165 staff members (including 34 Faculty, 9 Visiting Scholars, 27 Postdocs, 23 Engineers/Technicians, and 30 Graduate Students). Areas of research includes: the Solar System, Star Formation, Stellar Evolution, Astrochemistry, Galactic Dynamics, Active Galaxies, Galaxy Evolution, Cosmology, and instrumentation Developments. We are partners in the SMA project on Mauna Kea, have access to the Arizona 12-m and 10-m radio telescopes, and have joined the ALMA project through collaborations with Japan and North America. We participate in instrumentation development on the CFHT and Subaru Telescope. We have observing time on the CFHT and participate in the Hyper Suprime-Cam survey on the Subaru Telescope. The TAOS project is in operation on Lulin Mountain in Taiwan to conduct a survey for small objects beyond Neptune. The AMiBA is in scientific operation on Mauna Loa for the study of the CMB anisotropy and clusters of galaxies through the Sunyaev-Zel'dovich effect. Theoretical and computational astrophysics is being pursued through both ASIAA in Taipei and the TIARA in collaboration with National Tsing-Hua University. A new initiative aims to develop numerical simulators through integrative and team approaches to meet the challenges associated with upcoming instruments. A newly formed VLBI group investigates super massive black holes with sub-millimeter and space VLBIs through international collaborations. More information on each topic can be found in our Home page.

We seek scientists who actively participate in the Institute's projects, in particular: (1) optical/IR or radio astronomers to pursue research topics related to Institute interests; (2) astronomers with radio interferometry experience to participate in ongoing tests/software-development and scientific observations with the SMA, AMiBA, ALMA, or VLBI; (3) solar system and planetary astronomers to participate in the study of small objects beyond Neptune through TAOS; (4) scientists to participate in instrumentation development for Optical/IR and radio telescopes; or (5) scientists with backgrounds in astrophysics or planetary sciences to pursue topics in theoretical astrophysics, computational fluid dynamics, or MHD. More information on target areas of postdoc recruitment can be found at http://www.asiaa.sinica.edu.tw/jobopening/ .

There are two types of ASIAA-funded postdoc positions: (1) ASIAA postdoc and (2) UCAT postdoc. ASIAA postdoctoral fellows are expected to work at ASIAA in Taipei in the ASIAA projects or groups. UCAT postdoctoral fellows are expected to conduct their research at a Taiwanese university (http://www.asiaa.sinica.edu.tw/links/ucat.html) under supervision of university faculty. Applications for the UCAT positions will be reviewed by a joint UCAT-ASIAA committee. Candidates may apply to both types of positions in one submission if they wish to do so. Application procedures, salaries, and benefits are the same for the two types of positions. The ASIAA funded postdoc appointments will initially be for two years, with possible extension for additional two years based on satisfactory performance.

Applicants should submit on-line at http://www.asiaa.sinica.edu.tw/jobopening/ (1) a curriculum vitae, (2) a brief summary of past research or instrumentation experience, and (3) a future research plan. At the time of submission, applicants will be asked to specify which type of postdoc position (ASIAA, UCAT, or both) they are applying for.

Applicants are also requested to arrange three letters of recommendation to be sent to: Email: asiaa@asiaa.sinica.edu.tw or the above address. Applications submitted before or on 15 December 2009 will receive full consideration for the ASIAA and UCAT postdoc positions.

Medical insurance and travel allowance are provided. Please see the Academia Sinica website for more information: http://hro.sinica.edu.tw/cbemployee/cdemployeeen.html

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No. 25806 (New)
Jansky Fellowships 2010
NATIONAL RADIO ASTRONOMY OBSERVATORY
Tel:
URL1: http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml ***(Jansky Program Web Page)***

Attention: Human Resources Department

The National Radio Astronomy Observatory (NRAO) announces the 2010 Jansky Fellowship program which provides outstanding opportunities for research in astronomy. Jansky Fellows formulate and carry out investigations either independently or in collaboration with others within the wide framework of interests of the Observatory. Prior radio experience is not required and multi-wavelength projects leading to a synergy with NRAO instruments are encouraged. The NRAO also encourages applications from candidates with interest in radio astronomy instrumentation, computation, and theory.

Appointments may be made for positions at any of these NRAO sites: Socorro, NM; Green Bank, WV; and Charlottesville, VA. As ALMA commissioning activities get underway, we anticipate that there will also be appointments available in Chile. Jansky Fellows are encouraged to spend time at universities working with collaborators during the course of their Fellowship.

In addition to appointments at NRAO sites, non-resident Jansky Fellowships may be offered for appointments that are hosted at a U.S. university. Frequent and/or long term visits to NRAO sites are encouraged. Split Fellowships with time spent at NRAO and a U.S. university are permitted. The starting salary will be $60,000 per year with an appointment duration of two years, and possible renewal for a third. A research budget of up to $10,000 per year is provided for travel and computing requirements. Fellows are eligible for page charge support, vacation accrual, health insurance coverage, and a moving allowance. In addition, up to $3,000 per year is provided to non-NRAO institutions that are hosting Jansky Fellows to defray local institutional costs.

The NRAO web site provides further details on the Jansky Fellowship Program and information on the application process. See http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml . Please note that candidates must receive their Ph.D. prior to beginning a Jansky Fellowship.

The deadline for BOTH applications and letters of reference is Monday, November 2, 2009. Award offers will be made by February 15, 2010, with the Fellowships expected to begin September 2010.

The NRAO is an equal opportunity employer (M/F/D/V).

Medical and dental insurance, retirement benefits, vacation and sick leave accrual.

No. 25808 (New)
Sagan Postdoctoral Fellowship Program
NASA EXOPLANET SCIENCE INSTITUTE/CALIFORNIA INSTITUTE OF TECHNOLOGY
Tel:
URL1: http://nexsci.caltech.edu/sagan/fellowship.shtml
Email Inquiries: saganfellowship@ipac.caltech.edu

Attention: Sagan Fellowship (Web submissions only)

The NASA Exoplanet Science Institute announces the 2010 Sagan Postdoctoral Fellowship Program and solicits applications for fellowships to begin in the Fall of 2010.

The Sagan Fellowships support outstanding recent postdoctoral scientists to conduct independent research that is broadly related to the science goals of the NASA Exoplanet Exploration area. The primary goal of missions within this program is to discover and characterize planetary systems and Earth-like planets

around nearby stars.

The proposed research may be theoretical, observational, or instrumental. This program is open to applicants of any nationality who have earned (or will have earned) their doctoral degrees on or after January 1, 2007, in astronomy, physics, or related disciplines. The fellowships are tenable at U.S. host institutions of the fellows' choice, subject to a maximum of one new fellow per host institution per year. The duration of the fellowship is up to three years: an initial one-year appointment and two annual renewals contingent on satisfactory performance and availability of NASA funds.

The Announcement of Opportunity, which includes detailed program policies and application instructions is available at the web site: http://nexsci.caltech.edu/sagan/fellowship.html Applicants must follow the instructions given in this Announcement. Applications must be submitted electronically through the above website. Inquiries about the Sagan Fellowships may be directed to saganfellowship@ipac.caltech.edu.

The deadline for both applications and letters of reference is Thursday, November 5, 2009. Offers will be made before February 1, 2010, and new appointments are expected to begin on or about September 1, 2010.

No benefits information has been provided by the employer.

No. 25809 (New)
POSTDOCTORAL RESEARCH POSITION
PENN STATE UNIVERSITY
Dept. of Astronomy & Astrophysics
525 Davey Lab
University Park, PA 16802
USA
Tel: 814-865-0418
FAX: 814 863 2842
URL1: http://www.astro.psu.edu
Email Submission Address: pavlov@astro.psu.edu
Email Inquiries: pavlov@astro.psu.edu

Attention: Dr. George Pavlov, Senior Scientist/Professor

Postdoctoral Position The Pennsylvania State University Department of Astronomy and Astrophysics 525 Davey Lab University Park, PA 16802 Tel: 814-865-9482 FAX: 814-863-3399 Email Inquiries: pavlov@astro.psu.edu URL: http://www.astro.psu.edu

Attention: Dr. George Pavlov

A postdoctoral research position is available in the Department of Astronomy and Astrophysics at the Pennsylvania State University. The successful applicant will work with Dr. Pavlov and collaborators on the analysis and interpretation of X-ray, gamma-ray and optical observations of neutron stars and related objects with Chandra, XMM-Newton, Fermi, HST, and other space observatories. A PhD is required. Prior experience with the analysis of high-energy and optical spectral/timing/imaging data would be useful. Information about the department can be found at http://www.astro.psu.edu .

The initial appointment is for one year, renewable to a total of three years. Applicants should send a curriculum vitae, list of publications, statement of research interests, and letters of recommendation from two referees to Dr. Pavlov at the above address (e-mail submission is acceptable). Applications will receive immediate consideration. The position will be filled as soon as a suitable candidate is identified.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

Medical Insurance is included as a benefit with this position.

No. 25810 (New)
Postdoctoral Researcher in Cosmological Observations and/or Analysis
JOHNS HOPKINS UNIVERSITY DEPARTMENT OF PHYSICS AND ASTRONOMY
Department of Physics & Astronomy
3400 N. Charles St., Bloomberg Center
Baltimore, MD 21218
USA
Tel: 410-516-4323
FAX: 410-516-7239
Email Submission Address: fseddon@pha.jhu.edu
Email Inquiries: fseddon@pha.jhu.edu

Attention: Frank Seddon, Research Service Analyst

Subject to the availability of funds, the Center for Astrophysical Sciences at The Johns Hopkins University (JHU) expects to hire one or more junior researchers to work with Professor Charles Bennett on topics related to observational cosmology and/or cosmological simulation and analysis. Depending on the experience of the applicant, positions could be filled at the rank of Postdoctoral Fellow, Assistant Research Scientist, or Associate Research Scientist.

The group is currently engaged in a range of research activities, including: the analysis of WMAP data; the development of microwave components and instruments for future CMB experiments; and dark energy observations, simulations, and data analysis. A background in at least one these areas of is a plus.

Candidates should send a letter of application, CV, and statement of research interests to Frank Seddon, 517 Bloomberg Center, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218. These materials may also be submitted electronically (fseddon@pha.jhu.edu). Please arrange for three letters of reference to be sent either by mail or electronically to the same addresses. The deadline for receipt of application materials is October 15, 2009. The starting date for the appointment is negotiable. AAE/EOE.

No benefits information has been provided by the employer.

No. 25812 (New)
Postdocl Researcher in Cosmological Observations and/or Analysis
JOHNS HOPKINS UNIVERSITY DEPARTMENT OF PHYSICS AND ASTRONOMY
Department of Physics & Astronomy
3400 N. Charles St., Bloomberg Center
Baltimore, MD 21218
USA
Tel: 410-516-4323

FAX: 410-516-7239
Email Submission Address: fseddon@pha.jhu.edu
Email Inquiries: fseddon@pha.jhu.edu

Attention: Frank Seddon, Research Service Analyst

Subject to the availability of funds, the Center for Astrophysical Sciences at The Johns Hopkins University (JHU) expects to hire one or more junior researchers to work with Professor Charles Bennett on topics related to observational cosmology and/or cosmological simulation and analysis. Depending on the experience of the applicant, positions could be filled at the rank of Postdoctoral Fellow, Assistant Research Scientist, or Associate Research Scientist. The group is currently engaged in a range of research activities, including: the analysis of WMAP data; the development of microwave components and instruments for future CMB experiments; and dark energy observations, simulations, and data analysis. A background in at least one these areas of is a plus. Candidates should send a letter of application, CV, and statement of research interests to Frank Seddon, 517 Bloomberg Center, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218. These materials may also be submitted electronically (fseddon@pha.jhu.edu). Please arrange for three letters of reference to be sent either by mail or electronically to the same addresses. The deadline for receipt of application materials is October 15, 2009. The starting date for the appointment is negotiable. AAE/EOE.

No benefits information has been provided by the employer.

No. 25813 (New)
Postdoctoral Researcher in Cosmological Observations
JOHNS HOPKINS UNIVERSITY DEPARTMENT OF PHYSICS AND ASTRONOMY
Department of Physics & Astronomy
3400 N. Charles St., Bloomberg Center
Baltimore, MD 21218
USA
Tel: 410-516-4323
FAX: 410-516-7239
Email Submission Address: fseddon@pha.jhu.edu
Email Inquiries: fseddon@pha.jhu.edu

Attention: Frank Seddon, Research Service Analyst

Subject to the availability of funds, the Center for Astrophysical Sciences at The Johns Hopkins University (JHU) expects to hire one or more junior researchers to work with Professor Charles Bennett on topics related to observational cosmology and/or cosmological simulation and analysis. Depending on the experience of the applicant, positions could be filled at the rank of Postdoctoral Fellow, Assistant Research Scientist, or Associate Research Scientist. The group is currently engaged in a range of research activities, including: the analysis of WMAP data; the development of microwave components and instruments for future CMB experiments; and dark energy observations, simulations, and data analysis. A background in at least one these areas of is a plus. Candidates should send a letter of application, CV, and statement of research interests to Frank Seddon, 517 Bloomberg Center, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218. These materials may also be submitted electronically (fseddon@pha.jhu.edu). Please arrange for three letters of reference to be sent either by mail or electronically to the same addresses. The deadline for receipt of application materials is October 15, 2009. The starting date for the appointment is negotiable. AAE/EOE.

No benefits information has been provided by the employer.

No. 25815 (New)
NRAO Postdoctoral Fellow - National Radio Astronomy Observatory
NATIONAL RADIO ASTRONOMY OBSERVATORY - THE NORTH AMERICAN ALMA SCIENCE CENTER (NAASC)
Tel:
URL1: https:\\careers.nrao.edu
Email Inquiries: aremijan@nrao.edu

Attention: Human Resources Department

The National Radio Astronomy Observatory (NRAO) is playing a leading role in the construction and operations of the Atacama Large Millimeter/Submillimeter Array (ALMA). When inaugurated in 2012, ALMA will be the most powerful (sub)millimeter interferometer ever constructed, and will transform our understanding of topics ranging from the formation of nearby protoplanetary disks to the earliest epochs of galaxy formation. The North American ALMA Science Center (NAASC) located at NRAO headquarters in Charlottesville, VA (on the campus of the University of Virginia) invites applications for a Postdoctoral Fellow to work with the NAASC scientific staff as it gears up to support the needs of the community when ALMA early science begins in 2011. The initial appointment, beginning in spring 2010, will be for two years, with the possibility of extending for a third year.

This position is aimed primarily at independent research, but with an emphasis on exercising ALMA end-to-end software and databases from a scientific perspective. The successful candidate will have the opportunity to work with NAASC scientists and to participate in the organization of ALMA scientific workshops, ALMA commissioning, and various other user support projects. The successful candidate is encouraged to assist in the development and maintenance of Splatalogue - the Database for Astronomical Spectroscopy (http://www.splatalogue.net) and will work with NAASC scientists to update and enhance the current capabilities and data available in the database. The position will be based at the NAASC in Charlottesville, VA and will offer an excellent opportunity to gain hands-on experience with the tools needed to make the most of ALMA's scientific promise.

To be considered, applicants must have an advanced degree in astronomy, chemistry, physics or a related field. Experience in any area of astronomical research is welcome. Skills in either molecular spectroscopy or automated line identification are also desirable but not required. Scientific programming capabilities are also desirable.

Interested applicants may apply online at https:\\careers.nrao.edu and should include a curriculum vitae, bibliography, cover letter, and statement of research interests with ALMA as well as past and planned independent scientific research. Applicants should also arrange to have three reference letters sent directly to NRAO by the January 5, 2010. Please direct any inquires to Anthony Remijan at aremijan@nrao.edu. Initial review of applicants will begin on January 5, 2010; however, applications will be accepted until the position is filled. NRAO is an Equal Opportunity Employer M/F/D/V.

Medical and dental insurance, retirement benefits, vacation and sick accrual.

No. 25816 (New)
Postdoc, computational and observational studies of star formation with ALMA and Herschel
LEIDEN OBSERVATORY
PO Box 9513
Netherlands
Tel:

FAX: 071 5275590
URL1: www.strw.leidenuniv.nl ***(Leiden Observatory)***
URL2: www.astro.uni-bonn.de/ARC/artist ***(ARTIST project)***
Email Submission Address: michiel@strw.leidenuniv.nl
Email Inquiries: michiel@strw.leidenuniv.nl

Attention: Michiel Hogerheijde

Effective immediately, a two-year postdoctoral position is available at Leiden Observatory, in connection with the ASTRONET-funded project ARTIST: Adaptable Radiative Transfer Innovations for Submillimeter Telescopes. The primary tasks of the postdoc will be to develop and test interfaces between existing theoretical descriptions of low-mass star formation and the modeling tools designed within ARTIST. Throughout, comparison to data form existing telescopes (such as JCMT, APEX, CARMA, SMA, and Herschel) will be used to apply the developed tools.

The ARTIST project is a collaboration between Leiden Observatory, the Argelander Institute for Astronomy at the University of Bonn, and the Institut de Ciencies de l'Espa, Barcelona (see http://www.astro.uni-bonn.de/ARC/artist). The project aims to develop the next generation modeling suite for comprehensive multi-dimensional radiative transfer calculations of dust and line emission, and is specifically designed for ALMA and Herschel. Low-mass star formation is explicitly taken as a research inspiration for ARTIST, although wider applicability is foreseen.

A demonstrated background in star formation studies is required. The postdoc will have ample opportunity to pursue her/his own research, including collaborations with members of the network.

Leiden Observatory is at the forefront of astronomical research and has a strong international character. We offer a competitive salary and excellent benefits. All research facilities of Leiden Observatory are available to the postdoc.

Applicants should send a CV, publication list, a statement of research interests, and three letters of recommendation to Dr. M.R. Hogerheijde at michiel@strw.leidenuniv.nl. Evaluation of the applications starts October 1 2009 and continues until the position is filled.

Leiden University offers comprehensive benefits including paid vacation, sick leave, disability insurance, maternity and parental leave, and retirement benefits. Health care insurance amounts to approx. 100 euro/month/person (children are free).

No. 25817 (New)
Postdoctoral Positions at Princeton University, Astrophysical Sciences
PRINCETON UNIVERSITY, DEPARTMENT OF ASTROPHYSICAL SCIENCES
Tel:
URL1: http://jobs.princeton.edu ***(Application site)***
URL2: http://www.astro.princeton.edu/job_opportunities/dept_jobs.htm ***(Detailed position descriptions)***
URL3: http://www.astro.princeton.edu ***(Department website)***
Email Inquiries: postapp10@astro.princeton.edu

Attention: Postdoctoral Positions at Princeton University, Astrophysical Sciences

The Department of Astrophysical Sciences, Princeton University, anticipates offering a number of postdoctoral and more senior positions in theory, observation and instrumentation, including (but not limited to) the Lyman Spitzer, Jr. Postdoctoral Fellowship in Astrophysics, the Joint Postdoctoral Fellowship with Carnegie Observatories and Princeton University, and a software scientist position to work on large-scale surveys. We encourage applications from those working in all areas of astronomy. Princeton astronomers with whom the successful applicants may work include Neta Bahcall (large-scale structure, clusters of galaxies), Adam Burrows (supernovae, planetary and stellar atmospheres), Renyue Cen (cosmological simulations), Christopher Chyba (solar system), Bruce Draine (interstellar medium), Jeremy Goodman (gamma-ray bursts, accretion disks), J. Richard Gott (cosmology, general relativity), James Gunn (galaxies, instrumentation), Ed Jenkins (UV astronomy, interstellar medium), Russell Kulsrud (plasma astrophysics), Jill Knapp (interstellar medium, radio astronomy), Robert Lupton (image processing, astronomical surveys), Jeremiah P. Ostriker (galaxies, cosmology), Roman Rafikov (planet formation and dynamics), David Spergel (cosmology, extrasolar planets), Anatoly Spitkovsky (neutron stars, high-energy astrophysics), James Stone (MHD, star formation), Michael Strauss (extragalactic astronomy, surveys), Ed Turner (extrasolar planets, gravitational lensing), and about 20 postdoctoral fellows and associate research scholars. There are also strong research groups with interest in astrophysics, in the Physics, Geophysics, and Mechanical and Aerospace Engineering Departments and at the nearby Institute for Advanced Study. For details on specific positions, see http://www.astro.princeton.edu/job_opportunities/dept_jobs.htm . Applicants should apply via the web at: http://jobs.princeton.edu . Letters of recommendation will also be handled through this site. Note that the online application must be started before asking your referees for letters. You will have the opportunity to complete and send your application later if you wish. All applications received by November 15, 2009 will be fully considered, but applications will continue to be accepted until the positions are filled. Only web submissions will be considered. All applications will be considered for all postdoctoral positions available in the department, but you will be asked in the application form which positions you are interested in. Princeton University is an equal opportunity employer and complies with applicable EEO and affirmativeaction regulations. For general information about applying to Princeton and how to self-identify, please link to http://web.princeton.edu/sites/dof/ApplicantsInfo.htm .

No benefits information has been provided by the employer.

No. 25818 (New)
Kavli Fellowships at Stanford
KAVLI INSTITUTE FOR PARTICLE ASTROPHYSICS AND COSMOLOGY
Tel:
URL1: http://www-group.slac.stanford.edu/kipac/apply.html ***(Web interface for submission of applications.)***
URL2: http://www-group.slac.stanford.edu/kipac ***(For further information about KIPAC)***
Email Inquiries: postdoc-recruit@kipac.stanford.edu

Attention: http://www-group.slac.stanford.edu/kipac/competition/apply.html

The Kavli Institute for Particle Astrophysics and Cosmology KIPAC) at Stanford University seeks young scientists of exceptional promise for Kavli Fellowships in astrophysics and cosmology. This fellowship program offers outstanding young scientists with experience in computation, instrumentation, observation, or theory, opportunities to develop innovative research programs in astrophysics and cosmology. Kavli Fellows will have great freedom, but may collaborate with existing KIPAC groups when appropriate. We expect to appoint one or more fellows this year. The positions offer excellent salary and benefits and a term of three years. The successful candidates will also receive a generous annual budget to support research expenses.

KIPAC is a joint venture between the Stanford Department of Physics and SLAC National Accelerator Laboratory. Research interests cover the interface between physics and astronomy, including a broad range of experimental, computational, observational, and theoretical topics. Existing programs include studies of dark energy, cosmic dynamics and structure formation, probing inflation with Cosmic Microwave Background polarization experiments, searches for dark matter, and studies of black holes, galaxies, clusters of galaxies, stars (including the sun) and other astrophysical sources. KIPAC members are involved in projects such as the Fermi Gamma-Ray Space Telescope, the AGIS TeV Gamma-Ray Observatory, CDMS, the BICEP-2/ Keck Array, Planck, QUaD, and QUIET CMB experiments, DES, JDEM, LSST, NuSTAR, ASTRO-H and the International X-ray Observatory. There are excellent laboratory facilities for instrumental development and significant computational resources for theoretical astrophysical research and data analysis.

Successful applicants should have, or be in the process of completing, a Ph.D. in astronomy or physics. They should possess a strong research background and

provide evidence of future potential. Applicants will automatically be considered for all available postdoctoral opportunities at KIPAC.

Applicants should provide a CV, research statement and arrange for three letters of reference. Please visit http://www-group.slac.stanford.edu/kipac/apply.html to submit your application. The deadline for receipt of all documents is December 1, 2009, although late applications may be considered until the positions are filled.

Further information about KIPAC may be found at the website http://www-group.slac.stanford.edu/kipac . Informal inquires regarding these positions may be addressed to postdoc-recruit@kipac.stanford.edu or to any KIPAC faculty member, listed at http://www-group.slac.stanford.edu/kipac/faculty.html considered until the positions are filled.

No benefits information has been provided by the employer.

No. 25819 (New)
Postdoctoral Fellowships
KAVLI INSTITUTE FOR PARTICLE ASTROPHYSICS AND COSMOLOGY
Tel:
URL1: http://www-group.slac.stanford.edu/kipac/apply.html ***(Web interface for submission of applications.)***
URL2: http://www-group.slac.stanford.edu/kipac ***(For further information about KIPAC)***
Email Inquiries: postdoc-recruit@kipac.stanford.edu

Attention: http://www-group.slac.stanford.edu/kipac/competition/apply.html

The Kavli Institute for Particle Astrophysics and Cosmology (KIPAC) at Stanford University and the SLAC National Accelerator Center has a number of openings for Postdoctoral Research Fellows for the Fall of 2010. These appointments are for up to three years and are reviewed annually.

KIPAC is a joint institute formed by the Departments of Physics and Applied Physics at Stanford University, and by SLAC. Research interests at the Institute are broad but are focused at the interface between physics and astronomy, encompassing observational, theoretical, computational, and experimental topics.

We are seeking outstanding individuals with a commitment to carrying out a vigorous research program in any area encompassed by KIPAC's broad research goals in astrophysics and cosmology. Successful applicants will have the opportunity to collaborate with existing research groups at Stanford/SLAC, and to participate in a variety of ground and satellite-based projects, including the Fermi Gamma-ray Space Telescope (FGST). Other research areas where applications are particularly encouraged include multiwavelength studies of galaxies and galaxy clusters; gravitational lensing; searches for dark matter; the Dark Energy Survey; the Large Synoptic Survey Telescope; cosmological parameter estimation; Cosmic Microwave Background polarization experiments; and current and future TeV gamma-ray telescopes. KIPAC also has an active research program in theoretical and computational astrophysics with an emphasis on compact objects and the formation and evolution of structure in the Universe, and welcomes applications in these areas.

Successful applicants should have, or be in the process of completing, a Ph.D. in Astronomy or Physics. They should posses a strong research background and provide evidence of outstanding potential. These positions are highly competitive and offer excellent salaries and benefits. Applicants will automatically be considered for other postdoctoral opportunities at KIPAC, including the Kavli Fellowships.

Applicants should provide a statement of research interests, a CV, and arrange for three letters of reference. All applications should be submitted through the web interface at http://www-group.slac.stanford.edu/kipac/apply.html . The deadline for receipt of documents is December 1, 2009, although late applications may be considered until the positions are filled.

Further information about KIPAC is available at http://www-group.slac.stanford.edu/kipac/ . Informal inquires regarding these positions may be addressed to postdoc-recruit@kipac.stanford.edu or to any KIPAC faculty member at http://www-group.slac.stanford.edu/kipac/faculty.html .

No benefits information has been provided by the employer.

No. 25823 (New)
Postdoctoral Fellowship in Plasma Astrophysics
UNIVERSITY OF ROCHESTER
214 Hopeman
Rochester, NY 14627
United States
Tel: 585-275-2048
FAX: 585-256-2509
Email Submission Address: cren@lle.rochester.edu
Email Inquiries: cren@lle.rochester.edu

Attention: Prof. Chuang Ren

The plasma physics group and the theoretical astrophysics group at the University of Rochester jointly invite applications for a postdoctoral position in plasma astrophysics, working with Prof. Chuang Ren and Prof. Eric Blackman. Preference will be given to candidates with expertise in high energy astrophysics, relativistic plasma astrophysics, or computational plasma physics with PIC, Vlasov, or MHD codes. Example areas of research include formation and evolution of relativistic collisionless shocks in both astrophysical and laboratory laser-driven environments, particle acceleration, relativistic magnetic reconnection, and magnetic field generation and energy transfer in collisionless astrophysical plasmas. Large-scale PIC simulations using a state-of-the-art PIC code will be important for this research but previous experience in PIC simulation is not required. The excellence of the candidate is more important than the specific focus of previous work.

The position is for 2 years with the possibility of extension for a third year. The annual salary is $45,000. The candidate can expect significant independence as well as the opportunity for close collaboration with two active groups in a supportive and interactive working environment. In addition to the activity in the Department of Physics and Astronomy and the Department of Mechanical Engineering, the University is home to the Laboratory for Laser Energetics, a major plasma physics and high energy density physics research center in the US.

medical and dental insurance

No. 25831 (New)
NORDITA Fellowships
NORDITA
Tel:
URL1: http://www.nordita.org/positions/index.php ***(announcement)***
URL2: http://apps.nordita.org/ ***(application web form; required)***
Email Inquiries: anne@kth.se

Attention: larus@nordita.org

NORDITA FELLOWSHIPS 2010-2011

NORDITA, the Nordic Institute for Theoretical Physics in Stockholm, Sweden, invites applications for post-doctoral research fellowships in theoretical physics. The deadline for applications is November 15, 2009. Appointments are normally for two years. NORDITA was founded in 1957 in Copenhagen, Denmark, but was relocated to the AlbaNova University Center in Stockholm in January 2007 where it is jointly hosted by Stockholm University and the Royal Institute of Technology (KTH).

Research at NORDITA covers a wide range of modern theoretical physics in the areas of Astrophysics and Astrobiology, Condensed Matter, Statistical and Biological Physics, and High Energy and Nuclear Physics. The research activity of the local academic staff is supplemented by NORDITA Scientific Programs, which bring together groups of leading experts to work on specific topics for extended periods. There is also ample opportunity for collaboration with faculty and research staff at local universities.

Further information about NORDITA can be found at http://www.nordita.org.

The fellowships are intended for scientists who have a recent PhD and wish to carry out research in theoretical physics.

Only online applications will be accepted. The application procedure is posted on http://apps.nordita.org .

No benefits information has been provided by the employer.

No. 25832 (New)
KICP Postdoctoral Research Fellow
THE UNIVERSITY OF CHICAGO, KAVLI INSTITUTE FOR COSMOLOGICAL PHYSICS
Tel:
Email Submission Address: http://kicp-fellowship.uchicago.edu/
Email Inquiries: centerfellow2009@kicp.uchicago.edu

Attention: Stephan Meyer

KICP Postdoctoral Research Fellow

The KICP announces the 2010 Postdoctoral Research Fellowship opportunity. Scientists who have or expect a PhD in Physics, Astrophysics or related fields between September 2006 and September 2010 are invited to apply. Successful applicants will be expected to conduct original research in experimental, observational, numerical or theoretical cosmology in an active interdisciplinary environment. Postdoctoral Scholars are appointed to renewable one-year terms up to three years contingent on funding. Our positions carry a competitive salary and benefits package. Institute Fellows have the freedom to work on any of the efforts in our Institute.

Research at the Kavli Institute for Cosmological Physics (KICP), based at the University of Chicago, is focused on interdisciplinary topics in cosmological physics: characterizing dark energy, studying the inflationary era, exploring the formation of structures in the Universe, and understanding the highest energy gamma and cosmic rays. Experimental studies of the CMB (polarization anisotropy and the Sunyaev-Zel'dovich effect); analysis of cosmological data including CMB data and large-scale structure survey data; analysis of Sloan Digital Sky Survey data; development of the Dark Energy Survey; gravitational lensing studies; high energy astrophysics with photons and cosmic rays; direct detection of dark matter particles and numerous topics in theoretical cosmology constitute the current slate of activities. The KICP also has active visitors, symposia, and education/outreach programs. Information about the KICP can be found at http://kicp.uchicago.edu/ .

To apply for the KICP Postdoctoral Research Fellowship, please submit your application by completing the online application form at http://kicp-fellowship.uchicago.edu/ . Requested information includes email contact information for 3 references who can independently write a letter of support for the applicant. Supplemental materials (Cover Letter [optional]; Curriculum Vitae; Research Statement; List of Publications) should be submitted as PDF files (each up to 10MB) on the application form.

The submission process will take ~ 15-20 minutes if you have all the necessary documents on hand. Please contact centerfellow2009@kicp.uchicago.edu if you have any questions.

Review of applications will begin on November 1, 2009 for positions that will begin in the Summer or Fall of 2010. The positions will remain open until filled; however applicants are strongly encouraged to submit all materials (and ensure that 3 letters of recommendation are received) by November 1, 2009.

The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

No benefits information has been provided by the employer.

No. 25690
Postdoctoral Postiion in Observational Radio Pulsar Astrophysics
MCGILL UNIVERSITY
Physics Department
3600 University Street
Montreal, QC H3A 2T8
Canada
Tel: 1-514-398-6412
FAX: 1-514-398-8434
URL1: http://www.physics.mcgill.ca/~pulsar/ ***(McGill Pulsar Group Homepage)***
URL2: http://www.physics.mcgill.ca/ ***(McGill Physics Department Homepage)***
URL3: http://www.mcgill.ca/ ***(McGill University Homepage)***
Email Submission Address: vkaspi@physics.mcgill.ca
Email Inquiries: vkaspi@physics.mcgill.ca

Attention: V. Kaspi, Prof.

Applications are invited for a postdoctoral position in radio pulsar astrophysics, to be held in the McGill Pulsar Group.

The pulsar group currently consists of 12 members and studies neutron stars mainly at radio and X-ray energies. This position is primarily for, though not restricted to, observational radio pulsar work. The successful applicant will do computer simulations of radio pulsar surveys with the upcoming Australia Square Kilometer Array Pathfinder (ASKAP) telescope. The goal of this work is to determine optimal observing parameters for an ASKAP pulsar survey. For this work, the applicant will have access to our two group-dedicated Beowulf computer clusters. There will also be opportunities for involvement in other group-based projects, at the postdoc's discretion.

The ideal candidate will have a PhD in a closely related field, excellent computer skills, familiarity with Linux, and experience in radio astronomy. Experience

with Beowulf clusters, with radio interferometry, or with radio or X-ray observations of radio pulsars or other types of neutron stars are also assets.

The position will be for initially 2 years with the possibility of extension for a third. The salary is at least $55,000 CDN per year, commensurate with experience, with additional budget for research expenses provided.

Please send a CV, one-page statements of research experience and research interests, along with the names and contact information for 3 references to the address provided. Email applications are acceptable but application materials should be merged into a single pdf file and sent to vkaspi@physics.mcgill.ca, with subject line "Radio Pulsar Postdoc Application".

The deadline for applications is August 31, 2009. The successful applicant's position can commence as early as September 2009, or on a mutually agreed upon date.

No benefits information has been provided by the employer.

No. 25714
Postdoctral position for the observation and modelisation of protoplanetary disks
CEA SACLAY
cente de l'orme les merisiers
Batiment 709
gif sur yvette, cedex 91191
france
Tel:

Attention: Sebastien CHARNOZ, Dr

The holder of this position will work on VISIR data (mid-infrared spectro-imager operating at the VLT) of protoplanetary disks in order to characterize their structure and dust component to bring new constrains on planet formation.

The results from these data will be compared with numerical simulations performed by our team in Paris, and other collaborators based in Grenoble and Lyon (France). The successful applicant will take an active part in a research consortium ("DUSTYDISK") which is gathered on a 4 years project aimed at making significant and comprehensive progresses in understanding the protoplanetary disks. This consortium includes both observations specialists and numerical simulation experts. The holder will also participate in making simulations of disks radiative transfer coupled with dynamical simulations to assess the performances of future mid-IR instruments on ELTs in this field. In a second phase, he will also participate to the scientific prospective and the preparation of the JSWT/MIRI instrument in the field of circumstellar disks.

Applicants should have an interest in planetary formation, be familiar with data processing (IDL). They should have obtained their PHD in astronomy.

Applications are invited for a 1 year (+1 year possible extension) postdoctoral position at the Service d'Astrophysique at Saclay, France.

The working place will be in the "IRFU/SAp", the Astrophysics department of the french Commission for Atomic Energy (CEA Saclay) located 30km southeast of Paris. The institute gathers more than 100 researchers working in various astronomical fields (http://irfu.cea.fr/Sap/).

The net salary will be around 2000 euros/month (after tax deduction), depending on qualifications and experience. The medical care is included.

Applications will be accepted until the position is fulfilled.

The starting date of the position is flexible from October 2009 to the beginning of 2010 according to the applicant's availability.

Applicants should take contact with Dr. Pantin (eric.pantin@cea.fr) or Dr Charnoz (charnoz@cea.fr) as soon as possible.

No benefits information has been provided by the employer.

No. 25715
Post-doctoral Position In Astronomy CONICYT-CNRS
CONICYT,NATIONAL COMMISSION FOR SCIENTIFIC AND TECHNOLOGICAL RESEARCH
Bernarda Morin 551
Providencia
Santiago, Region metropolitana 8320000
Chile
Tel: 56 2 3654441
FAX: 56 2 3654446
URL1: http://www.conicyt.cl/astronomia
Email Submission Address: postdoc_cnrs@conicyt.cl
Email Inquiries: mnorambuena@conicyt.cl

Attention: Dra. Monica Rubio, Postdoctorate Position In Astronomy CONICYT-CNRS

POST-DOCTORAL POSITION IN ASTRONOMY IN CHILEAN UNIVERSITIES CONICYT- CNRS 2009

The National Commission of Scientific and Technological Investigation, CONICYT, in the framework of the agreement signed in December 2007 by CONICYT and CNRS opens one postdoctoral position in Astronomy in Chile.

The applicant must be a French PhD astronomer or have a PhD in Astronomy or Astrophysics given by a French University. The appointment is for two years, and offers approximately the equivalent of a CNRS postdoctoral salary plus travel funding and health insurance. The candidate must be sponsored by a Chilean University or Institute where he/she would perform his research project.

Applicants should send a resume (curriculum vitae), with a list of publications and statement of research interests, and arrange to have three letters of recommendation and the sponsorship letter, sent to the electronic address given below. Application forms, as well as more details on the CONICYT program, can be found in

http://www.conicyt.cl/astronomia

Applications are due by October 5, 2009 by email to: postdoc_cnrs@conicyt.cl

/M.N.

No benefits information has been provided by the employer.

No. 25716
Postdoctoral Researcher in High-Energy Astrophysics
UNIVERSITY OF FLORIDA
Tel:
URL1: http://www.astro.ufl.edu/~oyk100/HEA_at_UF/ ***(High-Energy Astrophysics at University of Florida)***
Email Submission Address: kargaltsev@astro.ufl.edu
Email Inquiries: kargaltsev@astro.ufl.edu

Attention: Dr. Oleg Kargaltsev

Applications are invited for a postdoctoral researcher in high-energy astrophysics at the University of Florida (UF). The successful applicant will join the UF Astronomy Department, a diverse research center currently consisting of 23 faculty members, 12 postdoctoral fellows, and 25 graduate students (further information can be found at http://www.astro.ufl.edu). Applicants with expertise in the analysis of X-ray, optical (spectral/timing/imaging) and radio (imaging interferometry) data are encouraged to apply. Applicants with experience in numerical modeling of MHD outflows and solid theoretical background will also be considered. The successful applicant will work with Dr. Kargaltsev and his collaborators on the analysis and interpretation of X-ray, optical, and radio observations of neutron stars, pulsars and related phenomena (e.g., pulsar-wind nebulae and unidentified VHE sources). The available data come from Chandra, XMM-Newton, Suzaku, HST, VLA and ATCA observations. Ideally, the applicant will also have independent research projects in areas that will complement and broaden the existing high-energy astrophysics research (see http://www.astro.ufl.edu/~oyk100/HEA_at_UF/).

The initial appointment is for one year, renewable for up to three years. A PhD in Astronomy, Physics or a related discipline is required. Funding is available for conference travel and observing trips. UF is conveniently situated in northern Florida within a short drive from Atlantic (or Gulf) coast and Kennedy Space Center. With more than 51,000 students, UF is one of the nation's five largest universities and a major research institution. UF Astronomy Department has access to the recently completed 10.4-m Gran Telescopio Canarias (GTC) and the university's high-performance computing center. The Astronomy department also maintains close ties with the UF Physics department which also has a strong high-energy astrophysics group. Interested applicants should submit a curriculum vitae, list of publications, statement of research interests, and letters of recommendation from two referees to Dr. Kargaltsev at the above address (e-mail submission is acceptable). Review of applications will begin immediately and will continue until the position has been filled. The University of Florida is an Equal Opportunity Institution.

No benefits information has been provided by the employer.

No. 25717
POSTDOCTORAL POSITIONS IN ASTROPHYSICS AT UNIVERSIDAD DE CHILE
UNIVERSIDAD DE CHILE
Camino El Observatorio 1515
Las Condes
Chile
Tel: 56 2 977 1098
FAX: 56 2 229 3973
URL1: www.das.uchile.cl
Email Submission Address: postdoc2010@das.uchile.cl
Email Inquiries: slopez@das.uchile.cl

Attention: Sebastian Lopez, Dr.

Applications are invited for postdoctoral positions in astrophysics at the Department of Astronomy of Universidad de Chile. Subject to funding, up to seven positions will be supported. The positions are open to candidates possessing a Ph.D. in astronomy or physics, and working in areas of theoretical and/or observational astronomy that overlap with those currently conducted by the Department staff (Solar system, Exoplanets, Star Formation, Stellar Populations, The Milky Way, ISM, IGM, AGNs, Supernovae, GRBs, Clusters of Galaxies, Numerical Simulations; also see URL). Appointments will be for two years, renewable for a total of up to three years, and offer a competitive salary and travel funds. During his/her stay at Universidad de Chile the awardee will be eligible to apply to the 10% observing time granted to the Chilean community in world-class observatories such as ALMA, VLT, Gemini-South, Magellan, APEX, CTIO, La Silla, among others. High performance computing facilities are also available.

Applicants must send a curriculum vitae, bibliography and statement of their research interests, and arrange to have three letters of recommendation sent to the above electronic address. Applications will be reviewed starting September 30 2009.

English is the working required language.

No. 25718
POSTDOCTORAL POSITION IN ASTROPHYSICS AT UNIVERSIDAD DE CHILE (ASTE)
UNIVERSIDAD DE CHILE
Camino El Observatorio 1515
Las Condes
Santiago, Casilla 36D
Chile
Tel: 56 2 977 1098
FAX: 56 2 229 3973
URL1: www.das.uchile.cl
Email Submission Address: postdoc2010@das.uchile.cl
Email Inquiries: slopez@das.uchile.cl

Attention: Sebastian Lopez, Dr.

Applications are invited for a postdoctoral position in Astrophysics in the Department of Astronomy at Universidad de Chile. The successful candidate will be based at Cerro Calan National Astronomical Observatory, and will spend a significant amount of time working at the Atacama Submillimeter Telescope Experiment (ASTE) from NAOJ (about 10 days per month), including its base camp in San Pedro de Atacama, and the telescope site at 4800 m above sea level. The duty will include support of ASTE operation and of guest observers using ASTE within the Chilean observing time, with their observations and data analysis. The successful candidate will be able to apply for Chilean observing time to carry on science with ASTE and other telescopes in Chile. A PhD in astronomy or related field, as well as communications skills in English are required. High altitude medical exam will be necessary. Applicants must send a curriculum vitae, bibliography and statement of their research interests, and arrange to have three letters of recommendation sent to the above electronic address. Applications will be reviewed starting September 15 2009.

No. 25719

Postdoc position in extragalactic infrared/submillimetre survey processing and science
LEIDEN OBSERVATORY
PO Box 9513
Leiden, NL 2300 RA
The Netherlands
Tel: +31 71 5275883
FAX: +31 71 5275743
URL1: http://marc.sauvage.free.fr/tamasis/index_tamasis.html *(TAMASIS website)*
URL2: http://www.strw.leidenuniv.nl/ *(Leiden Observatory website)*
URL3: http://www.strw.leidenuniv.nl/~pvdwerf/jobs/postdoc-TAMASIS.html *(up-to-date information on the position)*
Email Submission Address: pvdwerf@strw.leidenuniv.nl
Email Inquiries: pvdwerf@strw.leidenuniv.nl

Attention: P.P. van der Werf, Dr.

Leiden Observatory has available a postdoctoral position in the field of extragalactic submillimetre survey processing and science. The successful candidate will form part of the European TAMASIS network, funded by AstroNet, under the supervision of Dr. P.P. van der Werf. The work consists of the development and public release of survey analysis tools, as well as scientific utilization of these tools using Herschel, SCUBA2 and other data.

Aim of the TAMASIS (Tools for Advanced Map-making, Analysis and SImulations of Submillimetre surveys) project is providing tools for simulating, reconstructing and analyzing infrared and submillimetre mapping observations, with Herschel, SCUBA2 and ALMA as the primary drivers. The project is divided over three sites: ESO (where realistic sky simulations to serve as controlled input will be developed), CEA-Saclay and IAS-Orsay (where advanced map-making tools will be developed), and Leiden Observatory. The position at Leiden Observatory is aimed at providing advanced survey analysis tools exploiting the multi-wavelength capabilities of instruments such as SPIRE and PACS on Herschel, as well as the SCUBA2 Cosmology Legacy Survey (where Van der Werf is one of the Principal Investigators) and ALMA. Tools to be developed include general-purpose stacking software, fluctuation analysis tools, multiwavelength deconvolution software, and reliability analysis tools. The successful candidate is expected to dedicate 2/3 of his/her time to the development and scientific utilization of the TAMASIS tools, with the remaining 1/3 to be used for other science projects.

Leiden is a charming university town with international flair, situated in the heart of the Netherlands with excellent connections to the rest of Europe. The Leiden Observatory offers a stimulating work environment with considerable expertise in observational and theoretical astronomy. The observatory employs about 19 full-time faculty members, about 30 postdocs and about 60 Ph.D students, from many different countries. Research at the observatory focuses on: (i) physics of nearby galaxies; (ii) galaxy evolution; (iii) formation of stars and planets; and (iv) astronomical instrumentation.

The appointment will be for two years initially, renewable for one additional year based on satisfactory performance, for a total of up to three years. Intended starting date for this position is November 2009. The position comes with a competitive salary and full benefits.

Applicants must have a PhD in astronomy at the start of the position. Expertise in far-infrared and/or submillimetre science is desirable, but candidates with other backgrounds are also encouraged to apply. Applicants should submit a curriculum vitae, publication list, a summary of current research interests and details of relevant experience. The applicant should arrange for two letters of reference to be sent to the same address.

Information on benefits is available on request.

No. 25720
Postdoctoral position in galaxy evolution with Herschel
CEA SACLAY, FRANCE
Tel:

Attention: D. Elbaz, E. Daddi

The Astrophysics Laboratory (Service d'Astrophysique, SAp) of the CEA-Saclay, a major space astrophysics laboratory located about 20 km South-West of Paris, offers a postdoctoral position to work on research topics related to galaxy formation and evolution.

The successful candidate will work with David Elbaz and/or Emanuele Daddi and will participate the analysis and scientific exploitations of deep Herschel extragalactic surveys to constrain the properties of star forming galaxies in the distant Universe.

Experience with the use of data from previous IR facilities (Spitzer, AKARI, etc) and/or with research on galaxy formation and evolution is required.

The starting date should be as soon as possible, and before the end of 2009. The appointments will be for at least two years and might be renewed for up to 5 years. Funds for travel and research will be available.

Applicants are requested to send a CV, a list of publications, and a brief (1-3 pages) statement of research interests, accomplishments and relevant technical experience. This material together with three letters of reference should be sent to David Elbaz (delbaz@cea.fr) and Emanuele Daddi (edaddi@cea.fr), before 15 September 2009.

No benefits information has been provided by the employer.

No. 25722
Post-doctoral Position in astrophysics: numerical simulations of the EoR
PARIS OBSERVATORY
Tel:
URL1: http://www.obspm.fr/postes/lidau-09.txt *(Job description)*
Email Submission Address: benoit.semelin@obspm.fr
Email Inquiries: benoit.semelin@obspm.fr

Attention: Benoit Semelin

Post-doctoral Position: numerical simulations of the EoR

Location: LERMA at Paris Observatory (http://www.obspm.fr/obsparis.en.shtml)

The post-doctoral fellow will work with B. Semelin in the framework of the LIDAU project. The project is dedicated to numerical simulations of the EoR and the prediction of the 21 cm signal. The goal is to help design and later on help interpret the observational data of the future radio-interferometer SKA. Among valued assets for the candidates are a good knowledge of the physics of the EoR and 21-cm emission, previous experience with large scale 3D radiative transfer simulations, skills in parallel computing (mainly OpenMP, optionally MPI and CUDA). Theoretical knowledge and simulation skills in Ly-alpha line transfer will also be appreciated. The successful candidate will participate in the team's work on exploring the influence of various physical processes (sources formation history, distribution, and spectrum, Wouthuysen field effect, Helium ionization, heating and cooling processes) on the statistical properties of the 21-cm emission.

Applicants should have a PhD in astronomy or astrophysics. The appointment will be for a period of 24 months, starting no sooner than December 2009 and no later than June 2010. We will start reviewing applications on October the 15th. Late applications will be considered if the position has not been filled yet.

Candidates should send a CV, publication list and brief research statement (~ 2 pages) by e-mail to B. Semelin (benoit.semelin@obspm.fr). They should also arrange for 2 recommendation letters to be sent to the same e-mail address.

For additionnal information contact: benoit.semelin@obspm.fr

No benefits information has been provided by the employer.

No. 25723
Research Associate - Fermilab Center for Particle Astrophysics
FERMI NATIONAL ACCELERATOR LAB
P.O. Box 500
Kirk Road and Pine Street
Batavia, IL 60510
United States of America
Tel: 630-840-6506
FAX: 630-840-8274
URL1: http://astro.fnal.gov
Email Submission Address: sallam@fnal.gov
Email Inquiries: sallam@fnal.gov

Attention: Sahar Allam

Job Description: Postdoctoral Position

For Immediate Hire

A postdoctoral research position is available for immediate hire in the FCPA at Fermilab. The successful applicant will work with Dr. Allam and collaborators on the analysis and interpretation of HST, Spitzer, and other ground-base observations of lensed star forming galaxies at z>1. A PhD in Astronomy/Astrophysics is required. Prior experience with the analysis of optical/near infrared images and spectral data is required. Information about the FCPA can be found at http://astro.fnal.gov

The initial appointment is for one year, with the possibility of renewable up to a total of two years depending on performance and the availability of funding. Applicants should send a curriculum vitae, list of publications, statement of research interests, and letters of recommendation from three referees, no later than Aug. 31, 2009.

Applications and requests for information should be mailed to Postdoctoral Search, c/o Sahar Allam, Fermilab MS 127, Box 500, Kirk Rd.& Pine St., Batavia IL 60510 or e-mailed to sallam@fnal.gov with "Postdoctoral Search" in the subject heading. Inquire if you do not receive a confirmation e-mail before the deadline. Applications will receive immediate consideration. The position will be filled as soon as a suitable candidate is identified.

No benefits information has been provided by the employer.

No. 25724
MIT Pappalardo Fellowships in Physics
MIT DEPARTMENT OF PHYSICS
77 Mass. Ave.
Rm. 4-304
Cambridge, MA 02139
USA
Tel: 617-253-4800
URL1: http://web.mit.edu/physics/index.html *(MIT Physics Department Home Page)*
URL2: http://web.mit.edu/physics/research/pappalardofellowshipsprogram/competition_10.html *(MIT Pappalardo Fellowships Competition Home Page)*
Email Submission Address: breen@mit.edu
Email Inquiries: breen@mit.edu

Attention: Carol Breen, Communications Administrator

Call for Nominations: 2010-2013 MIT Pappalardo Fellowships in Physics

Faculty and senior researchers within the international community of physics, astronomy or related fields are invited to nominate candidates for the 2010-2013 MIT Pappalardo Fellowships in Physics competition.

Nominees must be young men or women of exceptional ability who have, or will have received, a doctoral degree in physics, astronomy or related fields by September 1, 2010. Nominations can only be submitted using the program's secure, on-line nomination form on the MIT Department of Physics web site at http://web.mit.edu/physics .

The NOMINATION DEADLINE is FRIDAY, SEPTEMBER 11, 2009.

Three new Fellows will be selected for a three-year appointment each, running from September 1, 2010, through August 31, 2013. Features of the fellowship include:

---independent, unrestricted choice of research direction within the MIT Department of Physics;

---competitive annual stipend of $61,000 for first-year Fellows in the 2010-11 academic year, with an annual cost-of-living increase, plus $5,000 per year in untaxed discretionary research funds;

---MIT Medical health insurance coverage for Fellows and their dependents;

---active faculty mentoring provided by weekly luncheons and monthly dinners with Department faculty and distinguished guests.

Important Note: Participation in the annual MIT Pappalardo Fellowships competition is restricted to those candidates who have been nominated by a faculty member or senior researcher from the international community of physics, astronomy or related fields. The fellowships program office cannot accept any materials from applicants without this faculty/senior researcher sponsorship.

No benefits information has been provided by the employer.

No. 25725
ESA Postdoctoral Fellowships in Space Science
EUROPEAN SPACE AGENCY
Keplerlaan 1
Noordwijk, ZH 2200AG
Netherlands
Tel: 31 71 565 5452
URL1: http://www.rssd.esa.int/fellowship
Email Submission Address: temp.htr@esa.int
Email Inquiries: fellowship@rssd.esa.int

Attention: Fellowship Programme, Human Resources Division

The European Space Agency awards several postdoctoral fellowships each year. The aim of these fellowships is to provide young scientists, holding a PhD or the equivalent degree, with the means of performing space science research in fields related to the ESA Science Programme. Areas of research include planetary science, astronomy and astrophysics, solar and solar-terrestrial science, plasma physics and fundamental physics. The fellowships have a duration of two years and are tenable at the European Space Research and Technology Centre (ESTEC) in Noordwijk, Netherlands, or at the European Space Astronomy Centre (ESAC) in Villafranca del Castillo, near Madrid, Spain.

Applications are now solicited for fellowships in space science to begin in the summer or fall of 2010. Preference will be given to applications submitted by candidates within five years of receiving their PhD. Candidates not holding a PhD yet are encouraged to apply, but they must provide evidence of receiving their degree before starting the fellowship.

The deadline for applications is 1 October 2009.

More information on the ESA Research Fellowship programme in Space Science, on the conditions and eligibility, as well as the application form can be found on the world-wide web at this address: http://www.rssd.esa.int/fellowship

Questions on the scientific aspects of the ESA Fellowship Programme in Space Science not answered in the above pages can be sent by e-mail to the fellowship coordinator, Dr. Guido De Marchi, at the address fellowship@rssd.esa.int

ESA fellows are covered by ESA's Social Security Scheme which covers medical expenses, invalidity and death benefits. A monthly deduction covers these short-term and long-term risks.

No. 25727
Research Scientist and Lecturer Position in Theoretical Astrophysics
CENTER OF ASTRONOMY AND ASTROPHYSICS, TECHNICAL UNIVERSITY BERLIN
Hardenbergstr. 36
Berlin, Berlin 10623
Germany
Tel: +49-30-314-25462
FAX: +49-30-314-24885
URL1: http://homepage.univie.ac.at/dieter.breitschwerdt *(Homepage, Head of Department)*
URL2: http://www-astro.physik.tu-berlin.de *(Homepage, Center of Astronomy and Astrophysics)*
Email Submission Address: breitschwerdt@astro.physik.tu-berlin.de
Email Inquiries: breitschwerdt@astro.physik.tu-berlin.de

Attention: Dieter Breitschwerdt, Professor

The Center of Astronomy and Astrophysics at the Technical University Berlin invites applications for the position of a Research Scientist and Lecturer in the group of Plasma and High Energy Astrophysics. The successful candidate should have a thorough knowledge in theory and modeling in one or several of the following fields: the acceleration and propagation of cosmic rays, extragalactic systems (e.g. groups and clusters of galaxies, interacting galaxies). Preference will be given to a highly motivated scientist who will join the group's effort in modeling galaxies and its constituents in different environments, both in the local and distant universe.

The position includes 4 hours of teaching per week during semester, and the applicant is expected to guide students at all levels (BSc, MSc, PhD). Experience in research fund raising would be appreciated. The applicant should hold a PhD in astronomy, physics or mathematics. Further qualification within the university system (Habilitation) will be supported.

The contract is for 5 years, and the salary is commensurate with the university scheme (BAT IIa). Preferred starting date is the winter term (October 2009).

Applications should include a CV, list of publications, a brief statement of research accomplishments and plans, as well as three letters of recommendation.

The review of applications will begin 1 September 2009, and will continue until the position is filled. The Technical University of Berlin is an equal opportunity employer.

Social benefits, contribution to health insurance are according to the regulations of the public sector in Germany.

No. 25728
Research Scientist and Lecturer Position in Theoretical Astrophysics (Interstellar Medium)
CENTER OF ASTRONOMY AND ASTROPHYSICS, TECHNICAL UNIVERSITY BERLIN
Hardenbergstr. 36
Berlin, Berlin 10623
Germany
Tel: +49-30-314-25462
FAX: +49-30-314-24885
URL1: http://homepage.univie.ac.at/dieter.breitschwerdt *(Homepage, Head of Department)*
URL2: http://www-astro.physik.tu-berlin.de *(Homepage, Center of Astronomy and Astrophysics)*
Email Submission Address: breitschwerdt@astro.physik.tu-berlin.de
Email Inquiries: breitschwerdt@astro.physik.tu-berlin.de

Attention: Dieter Breitschwerdt, Professor

The Center of Astronomy and Astrophysics at the Technical University Berlin invites applications for the position of a Research Scientist and Lecturer in the group of Plasma and High Energy Astrophysics. The successful candidate should have a thorough knowledge in computational astrophysics, with special emphasis on gasdynamics of the interstellar (ISM) and intergalactic medium (IGM). Preference will be given to a highly motivated scientist, who will join the group's effort in modeling the ISM/IGM and the role of compressible turbulence with high resolution on parallel computers, and who will be strong in cutting edge code development.

The position includes 4 hours of teaching per week during semester, and the applicant is expected to guide students at all levels (BSc, MSc, PhD). Experience in research fund raising would be appreciated. The applicant should hold a PhD in astronomy, physics or mathematics. Further qualification within the university system (Habilitation) will be supported.

The contract is for 5 years, and the salary is commensurate with the university scheme (BAT IIa). Preferred starting date is the winter term (October 2009).

Applications should include a CV, list of publications, a brief statement of research accomplishments and plans, as well as three letters of recommendation.

The review of applications will begin 1 September 2009, and will continue until the position is filled. The Technical University of Berlin is an equal opportunity employer.

Social benefits, contribution to health insurance etc. are according to the regulations of the public sector in Germany.

No. 25729
Postdoctoral position in extragalactic infrared/submillimetre survey processing and science
LEIDEN OBSERVATORY
PO Box 9513
Leiden, NL 2300 RA
The Netherlands
Tel: +31 71 5275883
FAX: +31 71 5275743
URL1: http://marc.sauvage.free.fr/tamasis/index_tamasis.html *(TAMASIS project website)*
URL2: http://www.strw.leidenuniv.nl/ *(Leiden Observatory website)*
URL3: http://www.strw.leidenuniv.nl/~pvdwerf/jobs/postdoc-TAMASIS.html *(up-to-date information on the position)*
Email Submission Address: pvdwerf@strw.leidenuniv.nl
Email Inquiries: pvdwerf@strw.leidenuniv.nl

Attention: P.P. van der Werf, Dr.

Leiden Observatory has available a postdoctoral position in the field of extragalactic submillimetre survey processing and science. The successful candidate will form part of the European TAMASIS network, funded by AstroNet, under the supervision of Dr. P.P. van der Werf. The work consists of the development and public release of survey analysis tools, as well as scientific utilization of these tools using Herschel, SCUBA2 and other data.

Aim of the TAMASIS (Tools for Advanced Map-making, Analysis and SImulations of Submillimetre surveys) project is providing tools for simulating, reconstructing and analyzing infrared and submillimetre mapping observations, with Herschel, SCUBA2 and ALMA as the primary drivers. The project is divided over three sites: ESO (where realistic sky simulations to serve as controlled input will be developed), CEA-Saclay and IAS-Orsay (where advanced map-making tools will be developed), and Leiden Observatory. The Leiden position is aimed at providing advanced survey analysis tools exploiting the multi-wavelength capabilities of instruments such as SPIRE and PACS on Herschel, as well as the SCUBA2 Cosmology Legacy Survey (where Van der Werf is one of the Principal Investigators) and ALMA. Tools to be developed include general-purpose stacking software, fluctuation analysis tools, multiwavelength deconvolution software, and reliability analysis tools.

The successful candidate is expected to dedicate 2/3 of his/her time to the development and scientific utilization of the TAMASIS tools, with the remaining 1/3 to be used for other science projects.

Leiden is a charming university town with international flair, situated in the heart of the Netherlands with excellent connections to the rest of Europe. Leiden Observatory offers a stimulating work environment with considerable expertise in observational and theoretical astronomy. The observatory employs about 19 full-time faculty members, about 30 postdocs and about 60 Ph.D students, from many different countries. Research at the observatory focuses on: (i) physics of nearby galaxies; (ii) galaxy evolution; (iii) formation of stars and planets; and (iv) astronomical instrumentation.

The appointment will be for two years initially, renewable for one additional year based on satisfactory performance, for a total of up to three years. Intended starting date for this position is November 2009. The position comes with a competitive salary and full benefits.

Applicants must have a PhD in astronomy at the start of the position. Expertise in far-infrared and/or submillimetre science and/or data processing is desirable, but candidates with other backgrounds are also encouraged to apply. Applicants should send a curriculum vitae, publication list, a summary of current research interests and details of relevant experience to the address below. The applicant should arrange for two letters of reference to be sent to the same address.

Please contact P.P. van der Werf for detailed information on benefits.

No. 25730
VLBI Radio Astronomy
MIT (HAYSTACK OBSERVATORY)
Off Route 40
Westford, MA 01886-1299
USA
Tel: 781-981-5413
FAX: 781-981-0590
URL1: http://www.haystack.mit.edu/
Email Submission Address: job@haystack.mit.edu
Email Inquiries: sdoeleman@haystack.mit.edu

Attention: Alan Blackburn, Asst to the Director

The MIT Haystack Observatory invites applications for a postdoctoral position in radio astronomy, with emphasis on advanced wideband and high-frequency techniques/science.

The successful applicant will be expected to play a major role in the Observatory's wideband VLBI program. Haystack develops, commissions and deploys state of the art wideband VLBI instrumentation to significantly increase VLBI array sensitivity. The resulting combination of high angular resolution and sensitivity is enabling unique approaches to a number of science areas, with a focus on imaging the Event Horizon of SgrA*, the super-massive Black Hole candidate at the Galactic Center. An important part of this program is the extension of VLBI techniques to the sub-mm bands to include ALMA and other new facilities. This research involves using non-standard VLBI arrays that observe at frequencies of 230GHz and higher. Current work within the program includes analysis of 230GHz VLBI data, simulation of future high frequency VLBI arrays, developing emission models for mm/submm emission near the black hole event horizon,

development of burst-mode VLBI recording, and hands-on VLBI observing campaigns at 230GHz or higher.

Independent research is encouraged, as are interactions with radio astronomy groups on the MIT campus and the Harvard-Smithsonian Center for Astrophysics in Cambridge. Applicants with experience in interferometry, software development and instrumentation are encouraged to apply. We are interested in applicants with creative approaches to problems who enjoy making new instruments work in pursuit of unique science observations.

Haystack Observatory is an MIT interdisciplinary research center situated on 1300 acres of forested land, 35 miles northwest of the MIT campus (http://www.haystack.mit.edu). The salary is competitive and appointments will initially be for two years, with possible extension to a third year.

Applications consisting of CV, research statement and the names of three references should be sent to (job@haystack.mit.edu).

http://hrweb.mit.edu/benefits/

No. 25732
Postdoctoral Researcher in Starburst Galaxies.
THE JOHNS HOPKINS UNIVERSITY
Department of Physics and Astronomy
3400 North Charles Street
Baltimore, MD 21218
USA
Tel: 410-516-7804
FAX: 410-516-7260
Email Submission Address: bmd@pha.jhu.edu

Attention: Barbara Dreyfus, Sr. Research Service Analyst

Subject to the availability of funds, the Center for Astrophysical Sciences at The Johns Hopkins University (JHU) expects to hire two junior researchers to work with Professor Timothy Heckman on the analysis of HST COS ultraviolet spectra. Depending on the experience of the applicant, the position could be filled at the rank of Postdoctoral Fellow, Assistant Research Scientist, or Associate Research Scientist.

One HST program uses COS data to study the interstellar medium and massive star population in low-redshift starburst galaxies that are excellent local analogs to Lyman Break Galaxies. The second program compares COS data for quasars located behind the halos of post-starburst galaxies to those located behind a control sample of normal galaxies to investigate the impact of a fossil galactic wind. Expertise in these areas of science and experience in the analysis of rest-frame UV spectra are pluses.

Candidates should send a letter of application, CV, and statement of research interests to Barbara Dreyfus, 517 Bloomberg Center, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218. These materials may also be submitted electronically (bmd@pha.jhu.edu). Please arrange for three letters of reference to be sent either by mail or electronically to the same addresses. The deadline for receipt of application materials is October 1, 2009. The starting date for the appointment is negotiable. AAE/EOE.

No benefits information has been provided by the employer.

No. 25733
Post-doctoral Research Associate, Radio Polarization Science
INSTITUTE FOR SPACE IMAGING SCIENCE
SB 605, 2500 University drive NW
Calgary, Alberta T2N1N4
Canada
Tel: 403-220-2556
FAX: 403-289-3331
URL1: www.ras.ucalgary.ca *(ISIS - Radio Astronomy at the University of Calgary)*
Email Submission Address: secretary@ras.ucalgary.ca
Email Inquiries: secretary@ras.ucalgary.ca

Attention: Professor Russ Taylor, Director

The University of Calgary Radio Astronomy Laboratory invites applications for post-doctoral Research Associate position in radio polarization science. Successful applicants will undertake research advancing our understanding of cosmic magnetism and will work as part of a team undertaking a large spectropolarimetric radio survey with the Arecibo ALFA receiver array (GALFACTS). He/she will also participate in the planning and execution of polarimetric surveys for SKA pathfinder telescopes including the Australia SKA Pathfinder. Applicants would ideally have experience in polarimetric observations and data processing at radio wavelengths, software development, and have knowledge of radio interferometry.

The University of Calgary is located in the city of Calgary in the foothills of the Rocky Mountains. With a population of one million, it is Canada's fourth largest metropolitan centre and offers a vibrant cultural community and access to outstanding outdoor recreation.

For more information on the Radio Astronomy division of the Institute for Space Imaging Science and the University of Calgary, please visit www.ras.ucalgary.ca. Applicants should submit a statement of research interest and a curriculum vita, and arrange for two letters of reference to be sent to Professor Russ Taylor, Director. The position will begin as soon as possible following the application deadline.

Extended medical and dental benefits package above Alberta Health Care (AHC is currently paid by the province)

No. 25737
Postdoctoral position in High-Energy Astrophysics
KAPTEYN ASTRONOMICAL INSTITUTE, UNIVERSITY OF GRONINGEN
P.O. Box 800
The Netherlands
Tel: (+31-50) 363 4093
FAX: (+31-50) 363 6100
URL1: http://www.astro.rug.nl *(Web page of the Kapteyn Astronomical Institute)*
URL2: http://www.astro.rug.nl/~mariano *(Web page of Mariano Mendez)*
URL3: http://www.rug.nl/sterrenkunde/onderzoek/areas/he-compact *(Research topics)*
Email Submission Address: mariano@astro.rug.nl
Email Inquiries: mariano@astro.rug.nl

Attention: Mariano Mendez, prof. dr.

We invite applications for a 3-year postdoctoral position at the Kapteyn Astronomical Institute, Groningen, The Netherlands. The postdoc will work with Mariano Mendez in the High-Energy Astrophysics group, initially on proprietary XMM-Newton and RXTE data of accreting neutron-star X-ray binaries, but he/she is expected to develop his/her own projects in topics related to those done within the group (e.g., accretion onto neutron stars and black holes, X-ray pulsars, X-ray bursts, active galactic nuclei). The group consists of 4 PhD and 2 MSc students. The Kapteyn institute has about 15 professors working on variety of topics, form planets to cosmology, 20 postdocs, and 50 PhD students.

Candidates must have a PhD degree (or equivalent) in astrophysics or physics. Demonstrated experience in analyzing X-ray data (e.g., with FTOOLS, CIAO, SAS, XSPEC, ISIS, SPEX, etc.) is an asset. Applicants should be skilled at oral and written communication. The candidate is expected to start in the fall of 2009. Salary depends upon qualifications and experience.

Interested candidates should send, preferably by email and in PDF format, CV, list of publications, a statement of research interests and previous achievements, and arrange for three letters of recommendation by three professional scientists familiar with the candidate's research to be sent separately. If English is not the candidate's native language, the letters should assess the level of English of the candidate. Applications received by September 15 2009 will receive full consideration.

Standard benefits for employees in the Netherlands.

No. 25740
Research appointment in CMB data analysis for the Planck mission
INSTITUTE OF ASTRONOMY
Madingley Road
Cambridge, Cambridgeshire CB3 0HA
United Kingdom
Tel: +44 1223 337516
FAX: +44 1223 337523
URL1: www.admin.cam.ac.uk/offices/personnel/forms/pd18 *(PD18 cover sheet)*
URL2: http://www.kicc.cam.ac.uk/ *(Kavli Institute for Cosmology)*
URL3: http://www.rssd.esa.int/index.php?project=planck *(Planck mission)*
Email Submission Address: pdrec@ast.cam.ac.uk
Email Inquiries: gpe@ast.cam.ac.uk

Attention: Mrs Paula Younger, Senior Secretary

The Institute of Astronomy and the Cavendish Astrophysics Group have a vacancy for a postdoctoral appointment in data analysis for the ESA Planck mission.

Planck, which was launched in May 2009, will observe the Cosmic Microwave Background over the entire sky with unprecedented sensitivity and resolution. The Cambridge Planck Analysis Centre (CPAC), based in the Kavli Institute for Cosmology, is one of the official centres for analysis of the Planck data. CPAC's responsibilities include the high-level data processing: detection of extra-galactic sources and SZ clusters, astrophysical component separation and power spectrum estimation. The successful applicant will join an existing team in developing, testing and running data processing pipelines for Planck. For this position we are seeking a candidate to contribute to simulations of the Planck mission and error analysis. Applicants should have good computing skills, and previous experience with astronomical data processing would be advantageous.

Funding is currently available until 31st May 2012. Salary will be within the range £27,183 - £35,469 pa depending on experience.

Applicants should send their cv and list of publications together with a PD18 coversheet to Mrs Paula Younger, Kavli Institute for Cosmology, Madingley Road, Cambridge, CB3 0HA, (pdrec@ast.cam.ac.uk) to arrive by 18th September 2009. Applicants should arrange for three referees to send references to this address by the same date. Further information on the vacancy can be obtained from Professor George Efstathiou (gpe@ast.cam.ac.uk).

The many benefits of university employment are outlined at http://www.admin.cam.ac.uk/offices/hr/staff/benefits/index.html

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No. 25743
Postdoctoral Research Assistant in Theoretical Studies of Star Formation
UNIVERSITY OF LEEDS
E. C. Stoner Building
University of Leeds
Leeds, West Yorkshire LS2 9JT
UK
Tel: 0113 343 3862
FAX: 0113 343 3900
URL1: http://hr.leeds.ac.uk/jobs/Default.aspx?CId=2
Email Submission Address: r.corbin@leeds.ac.uk
Email Inquiries: twh@ast.leeds.ac.uk

Attention: Rosie Corbin, Research Secretary

Applications are invited for a post in the School of Physics and Astronomy as an STFC-funded research assistant working on the theory of star formation with Professors S Falle (Applied Mathematics)and T Hartquist and Dr J Pittard. The successful applicant will use Adaptive Mesh Refinement hydromagnetic codes to investigate the formation and evolution of molecular clouds and dense cores, as well as the processes controlling them. The effects of weak ionisation and dust on dissipation and diffusion will be included in work on dense core evolution. Collaboration with Professor P Caselli and Drs M Hoare, S Lumsden and R Oudmaijer on the comparison of numerical and observational results for star forming regions will be encouraged.

The successful applicant will have completed the requirements for a PhD in theoretical astrophysics or an appropriate sub-discipline of applied mathematics or physics. Preference will be given to candidates having some experience with computational fluid dynamics or plasma physics. The starting date will be by arrangement but is expected to be around 1 March 2010.

University Grade 7 (£29,704 - £35,469 p.a.).Due to funding limitations, it is likely that the appointment will be made at or below £31,513.

No benefits information has been provided by the employer.

No. 25745
SOAR Postdoctoral Fellow
SOUTHERN ASTROPHYSICAL RESEARCH TELESCOPE (SOAR)
PO Box 26732
Tucson, AZ 85726-6732

USA
Tel: 520-318-8116
FAX: 520-318-8456
Email Submission Address: hrnoao@noao.edu
Email Inquiries: sheathcote@ctio@noao.edu

Attention: NOAO Human Resources Office, SOAR Postdoctoral Fellow - Job 963

The Southern Astrophysical Research (SOAR) consortium invites applicants for a three-year postdoctoral fellow position at its facilities in Chile. The 4.1-m SOAR Telescope is a state-of-the-art observatory located on Cerro Pachón adjacent to Gemini-South. It is equipped with a large suite of instruments including the SOAR Optical Imager, the Spartan near IR camera, the OSIRIS near IR imager/spectrograph and the Goodman Optical Spectrograph. The SOAR Adaptive-optics module (SAM) a ground layer adaptive optics module and an IFU-fed optical spectrograph (SIFS) will be commissioned in the coming year, while it is anticipated that a high resolution optical spectrograph (STELES) will be delivered during 2011. SOAR is owned by a consortium, whose members are the Federative Republic of Brazil, the National Optical Astronomy Observatory (NOAO), the University of North Carolina at Chapel Hill, and Michigan State University, and is operated on their behalf by NOAO.

The position has equal components of research and functional time. Functional duties will include assisting the Director and other SOAR staff, with monitoring and optimizing the performance of the telescope, maintaining and calibrating the existing instruments, commissioning new instruments and telescope capabilities, and helping develop plans to maximize the scientific productivity of the facility. The successful candidate will be expected to spend 50% of their time pursuing an active program of research, preferably including use of SOAR and its instruments. Every effort will be made to align the scientist's functional duties with his or her research interests, and scientific support includes a modest annual research budget and coverage for page charges.

The ideal candidate will be an observational astronomer with hands-on experience of instrumentation. Specific interest in optical spectroscopy, infrared imaging and spectroscopy, and/or adaptive optics is advantageous, but all skill sets relevant to SOAR will be considered. Familiarity with modern observatory operations and scientific data management, as well as experience in the use and development of data reduction procedures will also be favorably considered in the selection process. The position is based at the AURA campus in La Serena, Chile, which includes the offices of NOAO-South and Gemini-South, as well as SOAR, and with astronomers from Las Campanas Observatory and the University of La Serena located close by, providing opportunities for scientific and technical collaborations with more than forty scientific staff working on a variety of research topics, including large-scale structure, supernovae, stellar populations, galaxy evolution, stellar evolution, interstellar medium, chemical evolution of galaxies, and active galaxies. We also benefit from a continuous flow of visiting astronomers using the various international facilities.

The working language is English. Staff members have excellent benefits and living conditions, a cost-of-living allowance, an educational stipend for dependent children, support for Spanish lessons, international health care benefits, and annual travel to point of hire. Bilingual (English/Spanish) education for children is available at the International School of La Serena which was co-founded by and still supported by AURA. The city of La Serena is a major seaside tourist destination in South America, with a mild maritime climate.

Applications received prior to September 15, 2009 are assured of full consideration; however, the position is open until filled. The position is open to candidates from all countries and AURA is an equal opportunity/affirmative action employer. We actively support efforts to broaden participation in all Observatory activities. Women and candidates from underrepresented minorities are particularly encouraged to apply.

Applicants should submit electronically (preferred) to hrnoao@noao.edu, or by mail to the address below: a curriculum vita; a statement of current research interests, details of experience, and the name of three references. When applying for this position please reference SOAR Postdoctoral Fellow, Job #963.

Further details can be obtained from the Director of SOAR, Dr. Steve Heathcote, sheathcote@ctio.noao.edu.

Send resume to: Human Resources Office National Optical Astronomy Observatory SOAR Postdoctoral Fellow – Job #963 P.O. Box 26732 Tucson, Arizona 85726-6732 Email: hrnoao@noao.edu FAX: 520-318-8456

No benefits information has been provided by the employer.

No. 25749
Postdoctoral Position in Exoplanets
WESLEYAN UNIVERSITY
Tel:
URL1: http://sredfield.web.wesleyan.edu *(Seth Redfield homepage)*
URL2: http://www.wesleyan.edu/astro/ *(Wesleyan Astronomy)*
URL3: http://www.wesleyan.edu/planetary/ *(Wesleyan Planetary Science Group)*
Email Submission Address: sredfield@wesleyan.edu
Email Inquiries: sredfield@wesleyan.edu

Attention: Seth Redfield

Applications are invited for a postdoctoral position in exoplanets at Wesleyan University. The successful candidate will work in collaboration with Dr. Seth Redfield primarily on high resolution optical spectra of transiting exoplanets obtained with the 9.2-m Hobby-Eberly Telescope. The project is focused on characterizing the atmospheres of extrasolar planets using this rich observational dataset. Other related research areas of mutual interest may include gas absorption in edge-on debris disks and the structure of the local interstellar medium, using ground-based, Hubble, and Spitzer observations. Wesleyan has a Planetary Science Group that includes faculty from several departments. The successful candidate will be encouraged to interact with other faculty and to carry out independent research with full access to observational facilities available to Wesleyan. Experience with data reduction and analysis, high-resolution spectroscopy, and observational studies of exoplanets will be helpful. Applicants must have a Ph.D. in astronomy or astrophysics at the start of the appointment.

Wesleyan University is located between New York City and Boston, and has a small but active astronomy program, which emphasizes involvement of undergraduate and M.A. students in mainstream astronomical research. We are particularly interested in candidates who feel that they could both contribute to and flourish in this unique educational environment. The postdoc would have the opportunity, if desired, to take advantage of this setting to develop educational skills through mentoring students in research and possibly teaching. The position is available immediately, but the starting date is negotiable. Initial appointment would be for two years, although funding for at least one additional year is available. Applicants should send a cover letter, curriculum vitae, bibliography, statement of research experience and interests, and arrange for three letters of reference to be sent to the address above by 15 September 2009 for full consideration. Late applications will be considered until the position is filled.

Wesleyan University is an equal opportunity, affirmative action employer M/W/D/V and strongly encourages applications from women and minorities.

The salary is competitive, and health and retirement benefits and travel allowance are provided. Please see the Wesleyan Benefits website for more information: http://www.wesleyan.edu/hr/benefits/benefitslandingpage.html

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No. 25674
Postdoctoral Positions in Astrophysics
CENTRO DE RADIOASTRONOMIA Y ASTROFISICA, UNAM

Antigua Carretera a Patzcuaro 8701
Col. Ex-Hacienda de San Jose de la Huerta
Morelia, Michoacan 58090
Mexico
Tel: +52 443 322 27 95
FAX: +52 443 322 27 93
URL1: http://www.crya.unam.mx *(Institution website)*
URL2: http://www.crya.unam.mx/postdoc_unam *(Webpage with additional information)*
Email Submission Address: d.garcia@crya.unam.mx
Email Inquiries: d.garcia@crya.unam.mx

Attention: Diana Garcia, Director's Assistant

The Centro de Radioastronomia y Astrofisica (CRyA) of the Universidad Nacional Autonoma de Mexico (UNAM) invites researchers to submit applications for UNAM postdoctoral fellowships in astrophysics, to begin in March 2010. The appointment is for one year, renewable for a second year depending on performance. The CRyA is located in the beautiful city of Morelia, 300 km west of Mexico City, with direct flights to Houston, Los Angeles, and Chicago.

Fellows are expected to carry out original research in any area of astrophysics, collaborating with faculty and/or students. The main selection criteria will be outstanding research accomplishments and promise of future achievement. Fellows will have access to the San Pedro Martir National Astronomical Observatory, near Ensenada, Baja California. Astronomers at Mexican institutions have competitive access to the EVLA, the VLBA, and in the near future to ALMA, via a collaboration with the USA National Radio Astronomy Observatory; they can also compete for the Mexican share of observing time on the 10.4-m Gran Telescopio Canarias (GTC). The CRyA has computing facilities on site and has access to the UNAM supercomputer KanBalam (an HP CP 4000 rated at 7.1 TFlops with 3 Tbytes of memory and 160 Tbytes of storage). The CRyA provides funds for publishing, and limited support for observing and traveling.

At the starting date of their appointment, applicants should have a PhD in astronomy, physics, or related disciplines, earned within the last 3 years, and be less than 36 years old. Knowledge of English and/or Spanish is required. Salary and benefits are compatible with international standards.

Candidates must send a letter of interest, a research proposal, an abstract of her/his Ph.D. thesis, a complete curriculum vitae including the full list of publications, and two recommendation letters to Diana Garcia at the CRyA. All materials must be received at the CRyA by October 15th, at the latest. Unsigned material can be sent by e-mail; letters can be sent by e-mail (scanned) or by courier. Please do not use regular mail. Short-listed candidates will be requested to submit an official application form at a later date.

All interested applicants should contact Diana Garcia (d.garcia@crya.unam.mx) before the deadline for additional information; Ms. Garcia can offer assistance concerning the application procedure, in particular filling out the application form.

The fellowship is tax-free and includes hospital and accidental health coverage (of self and spouse); it also includes the cost of air travel to Morelia for the appointee, and the return trip at the end of contract.

No. 25675
Post-doctoral Positions in Astrophysics
CENTRO DE RADIOASTRONOMIA Y ASTROFISICA, UNAM
Antigua Carretera a Patzcuaro 8701
Col. Ex-Hacienda de San Jose de la Huerta
Morelia, Michoacan 58190
Mexico
Tel: +52 443 322 27 95
FAX: +52 443 322 27 93
URL1: http://www.crya.unam.mx *(Institution website)*
URL2: http://www.crya.unam.mx/postdoc_unam *(Webpage with additional information)*
Email Submission Address: d.garcia@crya.unam.mx
Email Inquiries: d.garcia@crya.unam.mx

Attention: Diana Garcia, Director's Assistant

The Centro de Radioastronomia y Astrofisica (CRyA) of the Universidad Nacional Autonoma de Mexico (UNAM) invites researchers to submit applications for UNAM postdoctoral fellowships in astrophysics, to begin in March 2010. The appointment is for one year, renewable for a second year depending on performance. The CRyA is located in the beautiful city of Morelia, 300 km west of Mexico City, with direct flights to Houston, Los Angeles, and Chicago.

Fellows are expected to carry out original research in any area of astrophysics, collaborating with faculty and/or students. The main selection criteria will be outstanding research accomplishments and promise of future achievement. Fellows will have access to the San Pedro Martir National Astronomical Observatory, near Ensenada, Baja California. Astronomers at Mexican institutions have competitive access to the EVLA, the VLBA, and in the near future to ALMA, via a collaboration with the USA National Radio Astronomy Observatory; they can also compete for the Mexican share of observing time on the 10.4-m Gran Telescopio Canarias (GTC). The CRyA has computing facilities on site and has access to the UNAM supercomputer KanBalam (an HP CP 4000 rated at 7.1 TFlops with 3 Tbytes of memory and 160 Tbytes of storage). The CRyA provides funds for publishing, and limited support for observing and traveling.

At the starting date of their appointment, applicants should have a PhD in astronomy, physics, or related disciplines, earned within the last 3 years, and be less than 36 years old. Knowledge of English and/or Spanish is required. Salary and benefits are compatible with international standards.

Candidates must send a letter of interest, a research proposal, an abstract of her/his Ph.D. thesis, a complete curriculum vitae including the full list of publications, and two recommendation letters to Diana Garcia at the CRyA. All materials must be received at the CRyA by October 9th, at the latest. Unsigned material can be sent by e-mail; letters can be sent by e-mail (scanned) or by courier. Please do not use regular mail. Short-listed candidates will be requested to submit an official application form at a later date.

All interested applicants should contact Diana Garcia (d.garcia@crya.unam.mx) before the deadline for additional information; Ms. Garcia can offer assistance concerning the application procedure, in particular filling out the application form.

The fellowship includes hospital and accidental health coverage.

No. 25678
Postdoctoral Position in Observational or Theoretical Cosmology (Ref. 09-04)
MAX PLANCK INSTITUTE FOR ASTRONOMY
Koenigstuhl 17
Germany
Tel: +49-6221-528-211
FAX: +49-6221-528-339

URL1: www.mpia.de ***(Institute homepage)***
Email Submission Address: koltes@mpia.de
Email Inquiries: joe@mpia.de

Attention: Susanne Koltes-Al-Zoubi (Ref. 09-04)

The Max Planck Institute for Astronomy (MPIA) in Heidelberg, Germany, is seeking ambitious highly qualified candidates to fill one postdoctoral research position in Dr. Joseph Hennawi's extragalactic research group.

We are particularly interested in research on: quasar absorption lines, the Lyman alpha forest and the intergalactic medium, the epoch of Helium reionization, cosmological hydrodynamical simulations, strong and weak gravitational lensing, and studies of quasars and active galactic nuclei at high redshifts, especially in relation to large surveys. Both theorists and observers are encouraged to apply.

At present, the 'Galaxies and Cosmology' department at MPIA is pursuing a wide range of astrophysical research encompassing large observing programs, instrument development and theoretical modelling. MPIA researchers have privileged access to the twin 8.4 meter Large Binocular Telescope in Arizona, the 2.2 m MPG telescope on La Silla, the 2.2 and 3.5 m telescopes on Calar Alto, and access to all ESO facilities and the Very Large Telescope (+ Interferometer) in Chile. In addition to these facilities, MPIA astronomers regularly use (sub-)millimeter observatories such as IRAM and APEX. A number of exciting new research opportunities will soon become available to MPIA, including the PanSTARRS1 Survey, the SDSS-III's Baryon Oscillation Spectroscopic Survey (BOSS), guaranteed time programs with the HERSCHEL mission, and an improved computing cluster.

Applicants should have a PhD in astronomy, astrophysics, or a closely related field. The appointment will be for an initial period of two years with a likely extension to a total of three years; MPIA provides funds for publications, travel, etc.

Candidates should send a single pdf file containing their application materials, including curriculum vitae and a brief statement of research interests to the address above and arrange for three letters of reference to be sent directly to that address. Letters will not be acknowledged. Applications received by September 1st, 2009 will receive full consideration. Late applications will be considered until the position is filled. For further inquiries, please contact Joseph Hennawi (joe@mpia.de).

The Max Planck Society is an equal opportunity employer. Applications from women, disabled people and minority groups are particularly welcome. The MPIA supports its employees in their search for suitable child care.

No benefits information has been provided by the employer.

No. 25680
3D radiation transfer of accretion flows
OBSERVATOIRE DE PARIS
5 Place Jules Janssen
FRANCE
Tel: +33 1 45 07 74 16
FAX: +33 1 45 07 71 00
URL1: www.obspm.fr ***(Observatoire de Paris)***
URL2: lerma.obspm.fr ***(LERMA)***
Email Submission Address: chantal.stehle@obspm.fr
Email Inquiries: chantal.stehle@obspm.fr

Attention: STEHLE, Chantal, Dr

The ANR STARSHOCK (2009-2013) collaboration aims at understanding the 3D dynamics and radiative properties of accretion columns in Young Stellar Objects. Accretion on young stars, like the classical T-Tauri stars, is thought to occur at high velocities along magnetospheric columns, which connect the circumstellar disk to the stellar photosphere. This accretion generates a strong shock with associated spectral signatures that are used to derive the accretion rate. Radiative shock experiments carried out at large-scale experimental plasma facilities will provide new insights on the small scale structure of these shocks and will be used to benchmark hydrodynamics and radiation transport codes.

The postdoc will work on the development of a 3D radiative transfer tool that will provide quantitative spectroscopic diagnostics bridging MHD simulations of radiative shocks and experiments conducted at high-energy laser facilities. The code will incorporate a detailed description of the plasma, of the opacities, and assess departures from Local Thermodynamic Equilibrium. The radiative transport tool will be applied to interpret the laboratory experiments and predict spectral signatures of accretion shocks in Young Stellar Objects.

The postdoc will be based at LERMA-Meudon and will have to interact with project partners, most especially with I. Hubeny (University of Arizona) and T. Lanz (University of Maryland).

Experience in developing large codes for numerical simulations in physics/ astrophysics is required. Expertise with radiation transport strongly preferred.

The contract will run for a period of 3 years.

Applications will be reviewed starting Sept. 1, 2009, until the position is filled.

No benefits information has been provided by the employer.The position is through employment contract; the social benefits cover medical and dental insurance, parental leave, and retirement benefits. The net salary is ~ 27000 euros.year.

No. 25681
Postdoctoral Position in Extragalactic X-ray Survey Astronomy
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street
Cambridge, MA 02138
USA
Tel: 617-495-7057
FAX: 617-495-7356
URL1: http://hea-www.harvard.edu/CHAMP/ ***(Chandra Multiwavelength Project page)***
URL2: http://hea-www.harvard.edu/~pgreen/ ***(Paul Green's home page)***
URL3: http://www.cfa.harvard.edu/ ***(Center for Astrophysics)***
Email Submission Address: pgreen@cfa.harvard.edu
Email Inquiries: pgreen@cfa.harvard.edu

Attention: Paul Green, Astrophysicist

Applications are invited for a postdoctoral stipend position in our High Energy Astrophysics Division to work on extragalactic X-ray science primarily involving the Chandra Multi-wavelength Project (ChaMP). The ChaMP is a serendipitous extragalactic X-ray survey using Chandra archival data that covers

about 30 square degrees to intermediate flux levels, complementing deep surveys that cover smaller areas to deep flux levels. The ChaMP detects thousands of active galaxies, and hundreds of clusters, many at high redshift.

The successful applicant will work with Dr. Paul Green and others on a variety of projects which may include co-adding of X-ray information for classes of galaxies, studies of local environment, modeling of galaxy/AGN source populations, and/or optical spectrosopic observing and/or analysis. The successful candidate will interact with the ChaMP team, use and develop the extensive existing database for the ChaMP, and publish scientific results. Candidates should have some experience in one or more of (1) observation and analysis of optical spectroscopy, (2) survey science and related statistics, modeling or simulation, or (3) data analysis at X-ray or other wavelengths. A strong scientific interest in working in this area is key.

This position will be for two years initially, with possible extension for up to 3 years. Interested candidates should provide electronically their curriculum vitae, bibliography, and names, addresses, telephone numbers, and email addresses of 3 professional references to the above address.

We are an equal employment opportunity employer committed to diversity in our workplace.

Health insurance and relocation allowance are provided.

No. 25682
Postdoctoral Fellow(s) - Exo-Planets, Brown Dwarfs and Young Stars
UNIVERSITY OF TORONTO
50 St. George Street
Room 101
Toronto, Ontario M5S 3H4
Canada
Tel: 416-946-5243
FAX: 416-946-7287
URL1: www.astro.utoronto.ca
Email Submission Address: rayjay@astro.utoronto.ca
Email Inquiries: rayjay@astro.utoronto.ca

Attention: Ray Jayawardhana, Professor

Applications are invited for one or more postdoctoral research position(s) at the University of Toronto to start in January 2010 or later. The successful candidate(s) will work with Prof. Ray Jayawardhana and his collaborators on observational and analytical studies of extra-solar planets, brown dwarfs and young stars, and will be encouraged to pursue independent research on related topics. On-going projects include high-contrast imaging searches for companions around young stars, the SONYC (Substellar Objects in Nearby Young Clusters) ultra-deep survey, photometric and spectroscopic studies of exo-planets, and investigations of brown dwarf variability, using data from VLT, Subaru, Gemini, Keck, Spitzer, Las Campanas and other major observatories. The position is for two years, with extension to a third year possible, and comes with funds for research expenses. Applicants should send a curriculum vitae, a description of research interests and plans and a list of publications, and should arrange for three letters of recommendation to be sent directly to the above address. E-mail submission preferred. Applications received before 2009 August 15 will receive full consideration. Early expressions of interest and inquiries are welcome.

No benefits information has been provided by the employer.

No. 25684
Postdoctoral Research Associate
PURDUE UNIVERSITY
Department of Physics
525 Northwestern Ave
West Lafayette, IN 47907
United States
Tel: 765-494-5193
FAX: 765-494-0706
Email Submission Address: peters11@purdue.edu
Email Inquiries: peters11@purdue.edu

Attention: Prof. John Peterson

Applications are invited for a postdoctoral fellowship at Purdue University with Professor John Peterson on the study of clusters of galaxies. Areas of collaboration include the physics of clusters of galaxies, dark matter/dark energy measurements with clusters, weak gravitational lensing, X-ray and optical observations of clusters, large cluster surveys, astrostatistics, and photon Monte Carlo simulations. Prof. Peterson has projects involving clusters surveys using X-ray and optical telescopes as well as a role in image simulations for the Large Synoptic Survey Telescope (LSST). The applicant will also be strongly encouraged to pursue their own scientific interests.

Opportunities to collaborate with other members of the astrophysics and particle physics groups also exist. Both observers and theorists are encouraged to apply. Strong data analysis and/or simulation experience is preferred. The postdoctoral fellowship is for one year, and can be renewed up to two more years contingent on performance and continued funding. Candidates must hold a Ph.D. or equivalent in physics or astronomy. The position's start date is negotiable.

To apply, please send a CV, a statement of proposed research, and three letters of recommendation sent to: Professor John Peterson, Department of Physics, 525 Northwestern Avenue, Purdue University, West Lafayette, Indiana 47907 or electronically to the address above. The position will remain open until filled, although applications received before October 15, 2009 will receive first consideration. Purdue University is an Equal Opportunity/Affirmative Action employer.

No benefits information has been provided by the employer.

No. 25688
Postdoctorate Position In Astronomy CONICYT-CNRS
CNRS -CONICYT
Bernarda Morin 551
Providencia
Santiago, Region metropolitana 8320000
Chile
Tel: 56 2 3654441
FAX: 56 2 3654446
URL1: www.conicyt.cl/astronomia
Email Submission Address: postdoc_cnrs@conicyt.cl

Email Inquiries: mnorambuena@conicyt.cl

Attention: Dra. Monica Rubio, Postdoctorate Position In Astronomy CONICYT-CNRS

Call for the Contest on Postdoctoral Position CONICYT- CNRS In Chilean Universities 2009

The National Commission of Scientific and Technological Investigation, CONICYT, makes a call for foreign investigators, which have obtained a doctorate degree in Astronomy in a French University, to participate in the contest of: “Postdoctoral Position CNRS-CONICY 2009”.

The objectives of this contest are: To fortify the cooperation in the scientific and technological investigation environment; to stimulate the productivity and scientific leadership of future investigators, which must hold a PhD in Astronomy or Astrophysics given by a French University; to contribute with the exchange program of investigators and entailment between scientific Chilean–French communities.

The candidate must have the sponsorship of a Chilean University.

Through this contest CONICYT will finance a Postdoctoral Position for two years.

This call will be published in the Web page of CONICYT and spread in France by the CNRS.

Applications should be sent, before October 5, 2009 by email to:

postdoc_cnrs@conicyt.cl

More information in the contest:

http://www.conicyt.cl/astronomia

No benefits information has been provided by the employer.

No. 25691
Post Doctoral
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive
Baltimore, MD 21218
USA
Tel:
URL1: http://www.stsci.edu/institute/employment
Email Submission Address: careers@stsci.edu
Email Inquiries: careers@stsci.edu

Attention: Human Resources: #09-0036

Applications are invited for a Postdoctoral Research position at the Space Telescope Science Institute (STScI) starting as early as November 2009.

The initial appointment is for two years, with a possible extension for a third year, pending on funding and satisfactory performance. The successful applicant will work with Dr. Ilaria Pascucci, member of the Research Staff at the Institute, on the approved Herschel survey of "Gas in Protoplanetary Systems." This 400-hour Open Time Key Program will provide the first systematic survey of gas in circumstellar disks with ages covering the dominant epoch of planet formation. The two key goals of the survey are: 1) measure the gas disk lifetime and thus constrain the formation time and the main formation pathway of giant planets; and 2) test whether water vapor remains long in the planet formation era to affect the volatile abundance of terrestrial planets (For more information on the Herschel Key Program see website at http://www.laeff.inta.es/projects/herschel/). The work will involve the reduction and analysis of Herschel/PACS data and modeling of the disk properties.

The postdoctoral researcher will also participate in the data reduction and analysis of the Cycle 16 Hubble Space Telescope program "Imaging Survey of Protoplanetary Disks and Brown Dwarfs in the Chamaeleon I Star-Forming Region" in collaboration with Drs. Massimo Robberto, Daniel Apai and Ilaria Pascucci at STScI and Kevin Luhman at Penn State University. This 40-orbit program recently obtained very deep optical WFPC2 images of the circumstellar environment of low-mass stars and brown dwarfs and provide data complementary to those already obtained with Spitzer and planned with the Herschel Space Observatory. This large survey will allow detailed comparative studies of circumstellar disks as a function of stellar mass. The successful applicant is expected to take a leading role in the analysis and publication of the results. Independent research in related areas will be supported. Requirements A PhD in astronomy or astrophysics is required. Research experience in space-based optical and infrared observations, infrared spectroscopy, and star & planet formation is desirable.

The Space Telescope Science Institute manages the Hubble Space Telescope and the James Webb Space Telescope and hosts the Kepler Mission Data Center. The Institute provides a uniquely dynamic and diverse environment for professional development.

STScI, located on Johns Hopkins University Campus in Baltimore, Maryland, also offers an excellent benefit package, competitive salaries, and a stimulating work environment. STScI's pay is commensurate to the year of Ph.D.

Applicants are requested to complete an online application at www.stsci.edu/institute/employment . Find the position using the requisition number listed above, click "apply online" at the bottom of the job details page, create an account, and upload the following items as PDF files into the "Resume Upload" section: 1) curriculum vitae, 2) list of publications, 3) brief statement of research interests, accomplishments, relevant technical expertise and 4) contact information for three individuals that will be submitting reference letters. Please include requisition number 09-0036 in the file name for each uploaded attachment. The three letters of recommendation should be submitted separately to careers@stsci.edu with #09-0036 in subject line. Completed applications received by August 31, 2009 are assured of full consideration. Interviews may be arranged during the IAU General Assembly in Brazil.

Committed to the benefits of diversity, we strongly encourage qualified women and minority candidates to apply. STScI is an affirmative action/equal opportunity employer. EOE/AA/M/F/D/V.

Comprehensive Medical, Dental, Vision & Prescription Plans available. Nearly a month of accrued leave per year and a separate sick-time package. An annual retirement account contribution equivalent to 10 percent of your salary. Tuition reimbursement for workplace-related courses, up to 100 percent based on grades. Flexible works schedule and telecommute options available.

No. 25692
Postdoctoral positions with the Cosmic Origins Spectrograph Science Team
CENTER FOR ASTROPHYSICS AND SPACE ASTRONOMY, UNIVERSITY OF COLORADO AT BOULDER
1255 38th St.
Boulder, CO 80303
Tel: 303-492-0376
FAX: 303-492-5941

URL1: http://cos.colorado.edu/ ***(Cosmic Origins Spectrograph)***
Email Submission Address: cynthia.froning@colorado.edu
Email Inquiries: cynthia.froning@colorado.edu

Attention: Dr. Cynthia Froning

The University of Colorado at Boulder is the PI institution for the Hubble Space Telescope Cosmic Origins Spectrograph (COS). As part of its mission, the COS team has guaranteed time with HST to execute a science program focusing on the origin of large scale structure and the evolution of the intergalactic medium, the formation, evolution and ages of galaxies, the interstellar medium, and the origins of stellar and planetary systems. The COS team at the University of Colorado at Boulder intends to make it final round of Research Associate (post-doctoral level) hires to work closely with science team members (James Green, Cynthia Froning, Mike Shull, Ted Snow and John Stocke) at the University of Colorado at Boulder, and analyze and publish data acquired during our guaranteed time program. We are especially interested in persons working in the areas of the interstellar medium and absorption from diffuse structures in the IGM. Experience in the analysis and interpretation of spectroscopic data is highly desirable. The start date for these positions is negotiable, but could begin as early as January 1, 2010. The positions will be for 2 years, with a possible extension for a third year. A Ph.D. in astronomy, physics or related field is required.

To apply for a position, please send a CV and a letter stating your scientific interests. Specifically address how you would contribute to the scientific goals of the project. Please arrange for two letters of recommendation to be sent directly to same address as this application. Consideration of applications will begin on September 1, 2009 and will continue until the positions are filled.

The University of Colorado at Boulder is committed to diversity and equality in education and employment; and conducts background checks on all applicants being considered for employment.

No benefits information has been provided by the employer.

No. 25697
Assistant Research Scientist in Planet Formation
THE JOHNS HOPKINS UNIVERSITY
366 Bloomberg Center, Dept of Physics & Astronomy
3400 North Charles Street
Baltimore, MD 21218
USA
Tel:
URL1: http://www.laeff.inta.es/projects/herschel/index.php
Email Submission Address: pascucci@pha.jhu.edu
Email Inquiries: pascucci@pha.jhu.edu

Attention: Ilaria Pascucci, JHU Associate Research Scientist & STScI Astronomer

Applications are invited for an Assistant Research Scientist position in the field of planet formation at the Department of Physics and Astronomy of The Johns Hopkins University (JHU) starting as early as November 2009.

The initial appointment is for two years, with a possible extension for a third year, dependent upon funding and satisfactory performance. The successful applicant will work with Dr. Ilaria Pascucci (JHU), Joan Najita (NOAO), and W. Dent (ALMA JAO) on the project entitled “Water Transport and Dispersal of Gas in Protoplanetary Disks” which is supported by the National Science Foundation. The research program has two main goals: 1) Map out the distribution and evolution of water vapor in protoplanetary disks to test how and when terrestrial planets can acquire water; and 2) identify atomic gas lines that can best trace the transition from gas-rich to gas-poor disks and thus constrain the time available to form giant planets. The work will involve the reduction and analysis of high-resolution ground-based infrared spectra and modeling of the disk properties. The ground-based data will complement already available Spitzer/IRS spectra and scheduled Herschel/PACS far-infrared data from the Herschel Key Program “Gas in Protoplanetary Systems” (http://www.laeff.inta.es/projects/herschel/index.php).

The successful applicant is expected to take a leading role in the analysis and publication of the results. Research experience in infrared spectroscopy, disk modeling, star and planet formation is an advantage.

Applications should include a curriculum vitae, brief statement of research interests and relevant work experience, list of publications, and three letters of reference to be sent to the email above. Completed applications received by August 31, 2009 are assured of full consideration.

The JHU Department of Physics and Astronomy offers a dynamic environment that fosters creativity and provides excellent opportunities for professional growth. Research topics span from cosmology to solar system studies. JHU astrophysicists work on theory, observations as well as new-instrument development. Intellectual life is greatly enhanced by the close ties that exist with the Space Telescope Science Institute, located across the street from the Bloomberg Center for Physics and Astronomy.

The Johns Hopkins University is an affirmative action/equal opportunity employer, and welcomes applications from women and members of underrepresented groups.

The Assistant Research Scientist will be entitled to a comprehensive benefit package (http://www.benefits.jhu.edu).

No. 25698
Postdoctoral position in Galactic astrophysics
RADBOUD UNIVERSITY NIJMEGEN
P.O. Box 9010
Nijmegen, - 6500 GL
The Netherlands
Tel: +31-24-3652801
FAX: +31-24-3652804
URL1: www.iphas.org
Email Submission Address: secr@astro.ru.nl
Email Inquiries: p.groot@astro.ru.nl

Attention: Paul Groot, Head of Department

The Department of Astrophysics at the Radboud University Nijmegen invites applications for a three-year postdoctoral position in the field of Galactic astrophysics. The position will entail research on the European Galactic Plane Surveys (EGAPS = IPHAS + UVEX + VPHAS+), which are currently mapping the full Plane down to 21st magnitude in U,g,r,i,Halpha and He I 5875 at |bThe Department of Astrophysics is part of the Institute of Mathematics, Astrophysics and Particle Physics (IMAPP) of the Faculty of Science at the Radboud University. The Radboud University Nijmegen participates in the Netherlands' Research School for Astronomy (NOVA).

Further information concerning this position can be obtained from prof.dr. P. Groot (p.groot@astro.ru.nl; tel +31-24-3652801). This postdoctoral position is funded by NWO, the Netherlands Organisation for Scientific Research.

Interested applicants should hold a PhD in (astro)physics. Candidates should submit a curriculum vitae, publication list, and a description of past research and future interests. Consideration of applications will begin September 7, 2009 and will continue until the position is filled. The application should include three names of researchers willing to write letters of reference. The salary is according to the Collective Salary Agreement of the Dutch Universities and starts at level 10.5 (2977 Euro/month gross), but depends on age and experience.

No benefits information has been provided by the employer.

No. 25700
Astronomy
KOREA ASTRONOMY AND SPACE SCIENCE INSTITUTE & CARNEGIE INSTITUTION OF WASHINGTON
61-1, Hwaam-dong, Yuseong-gu
Daejeon, Chungnam 304-348
Republic of Korea
Tel: +82 42 865 3270
FAX: +82 42 865 3272
Email Submission Address: arl@kasi.re.kr
Email Inquiries: arl@kasi.re.kr

Attention: A-Ran Lyo, Dr

2009 KASI – Carnegie Joint Postdoctoral Fellowship

Korea Astronomy and Space Science Institute (KASI) and The Observatories of the Carnegie Institution of Washington (Carnegie Observatories) invite applications for a four (4) - year KASI-Carnegie Joint Postdoctoral Fellowship in astronomy, to begin in November 2009. The Fellow with a Korean Ph.D. degree is expected to work for the first two (2) years at th?e main office of the Carnegie Observatories in Pasadena and the following two (2) years at KASI in Korea. The Fellow with a Ph.D. degree obtained from countries other than Korea is expected to work for the first two (2) years at KASI and the following two (2) years at the main office of the Carnegie Observatories. The order of the work place assignment among KASI and Carnegie Observatories and the duration of each stay is negotiable.

We encourage applications from broad areas of astronomy and astrophysics, although preference will be given to researchers working in areas in which KASI and Carnegie have active research interests and particularly those relevant to the Giant Magellan Telescope (GMT). Both institutions are founding members of the GMT Corporation. The Fellow will have full access to all the resources and facilities of both Institutions.

KASI resources and observing facilities include the 128 Core Xeon PC Cluster (RAM256GB), the 1.8-meter Bohyunsan optical telescope, the 1.0-meter Mt. Lemmon optical telescope, the 61-cm Sobaeksan optical telescope, the 14-meter Taeduk radio telescope, and the Korean Very Long Baseline Interferometer (KVN). Carnegie operates the Las Campanas Observatory in Chile, which include the twin 6.5-m Magellan telescopes, the 2.5-meter Dupont and the 1.0-meter Swope telescope.

Interested persons should submit the following documents: - a curriculum vitae; and - a statement of current research; and - a research plan based on the resources and facilities available at both institutions; and - arrange for three letters of reference to BOTH KASI and Carnegie Observatories.

Applications should be submitted by 30th August 2009 via e-mail: arl@kasi.re.kr (for KASI) and cfellow@ociw.edu (for Carnegie Observatories). Selection of the successful candidate will be made by a joint KASI-Carnegie committee.

The successful candidate will be provided with the remuneration (starting from around 46,000,000 Won (˜35,000 USD) per annum; the currency conversion rate between US Dollar and Korean Won employed here is 1.00 USD equates 1,300 Korean Won) and other benefits equivalent to those for the permanent staff working in KASI during his or/her stay at KASI, considering his or/her educational background and research experiences. While the equivalent sum of remuneration (around 54,000 USD per annum) to the one for the post-doctorate working in Carnegie Observatories will be paid during his (her) stay at Carnegie Observatories.

Enquiries may be addressed to: KASI – Dr. Lyo (e-mail: arl@kasi.re.kr) Carnegie Observatories – Dr. John Mulchaey (e-mail: cfellow@ociw.edu)

No benefits information has been provided by the employer.

No. 25703
Postdoctoral Position in Star Formation
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden St
Mail Stop 70
Cambridge, MA 01730
USA
Tel: 617-496-7766
FAX: 617-495-7356
URL1: http://www.cfa.harvard.edu/ ***(CfA home page)***
URL2: http://hea-www.harvard.edu/~swolk/ ***(Scott Wolk's home page)***
URL3: http://cxc.harvard.edu/ANCHORS/ ***(X-ray data in regions of star formation)***
Email Submission Address: swolk@cfa.harvard.edu

Attention: Scott Wolk, Staff Astrophysicist

Applications are invited for the position of postdoctoral fellow at the Smithsonian Astrophysical Observatory (SAO) for a recent recipient of a Ph. D. degree, with expertise and interests in observational and analytical studies of star formation. The applicant should have experience with observations of star-forming regions in the X-ray and/or infrared and/or in continuum emission at centimeter, millimeter, or submillimeter wavelengths; should have a record of publications or achievements which have advanced our knowledge of star formation; and should be interested in pursuing a program of observations and analysis, with emphasis on physical conditions and processes in star-forming regions. Candidates also should have demonstrated strong scientific interest in working in this field. The successful applicant will participate in the analysis and interpretation of XMM data acquired in the region of the Orion A cloud, with supporting data from the Spitzer Space telescope, and archival Chandra data from ANCHORS. The successful applicant may also obtain, reduce, and analyze supporting ground-based observations using facilities such as the SMA and the MMT. The position is for two years, with extension to a third year possible, contingent on performance and funding. Interested candidates should submit a curriculum vita, a bibliography and a statement of research interests and plans, and should arrange for three letters of recommendation to be sent as soon as possible for full consideration.

All materials should be sent to Dr. S. Wolk at the above address or by e-mail before 1 September 2009. The SAO is an AAE/EEO employer committed to diversity in our workplace.

No benefits information has been provided by the employer.

No. 25704
Post-doctoral Fellow in Astrophotonics - Photonic Applications for Astronomical Instrumentation
MACQUARIE UNIVERSITY/ANGLO-AUSTRALIAN OBSERVATORY
Tel:
URL1: http://www.aao.gov.au/
URL2: http://web.science.mq.edu.au/groups/mqphotonics/
URL3: http://www.physics.mq.edu.au/astronomy/
Email Submission Address: jsl@science.mq.edu.au
Email Inquiries: jsl@science.mq.edu.au

Attention: Dr. Jon Lawrence

This research position, suitable for a recent PhD graduate, is a joint appointment between the Anglo-Australian Observatory and Macquarie University. The successful candidate will closely interact with the staff in the instrument science group at the Anglo-Australian Observatory and the staff and students in the Photonics, and Astronomy and Astrophysics groups at Macquarie University – the two institutions are located close to each other in Sydney. The position is initially for 2 years, with a possibility of further extension subject to performance and external funding.

Astrophotonics is a rapidly emerging area that aims to apply frontier physical, optical, and photonic technologies to improve the power and efficiency of modern astronomical instruments. The Research Fellow appointed to this position will be expected to work on the development of integrated photonic spectrographs for astronomical telescopes, and other related astrophotonics projects.

The position requires: PhD (or near completion) in physics/astronomy/engineering or related field; background/experience in astronomy, astronomical instrumentation, optics, photonics, physics or related scientific disciplines; demonstrated record of research productivity.

Salary range: AUD$66,145 to $74,654 per annum (Academic Level A6-B1) plus employer superannuation contribution and leave loading.

Submit Resumes to: http://www.mq.edu.au/jobs/

For further details contact:

Dr. Jon Lawrence (jsl@science.mq.edu.au) Macquarie University/Anglo-Australian Observatory Sydney, NSW Australia

No benefits information has been provided by the employer.

No. 25705
postdoctoral position in high energy astrophysics
PURDUE UNIVERSITY
525 Northwestern Ave
West Lafayette, Indiana 47907
United States
Tel: 765.494.5171
FAX: 765.496.2298
Email Submission Address: finley@purdue.edu
Email Inquiries: finley@purdue.edu

Attention: John P. Finley, Professor

Applications are invited for a postdoctoral position in high energy astrophysics in the Department of Physics at Purdue University. The successful applicant will work with the VERITAS group to pursue VERITAS-related science. VERITAS is an array of ground based gamma-ray telescopes currently operating in southern Arizona. The group is mainly interested in pulsars, pulsar wind nebulae/supernova remnants, microquasars, and active galactic nuclei. The successful applicant will also be strongly encouraged to pursue his/her own scientific interests and to collaborate with other members of the high energy astrophysics group.

The postdoctoral fellowship is for one year, with the possibility of renewal for additional two years contingent on performance and continued funding. Candidates must hold a Ph.D. or equivalent in physics or astronomy. The starting date is negotiable. To apply, please send a vita, bibliography, statement of research, and have three letters of recommendation sent to: Professor John P. Finley, Department of Physics, Purdue University, 525 Northwestern Avenue, West Lafayette, IN 47907-2036. The position will remain open until filled, although completed applications will be evaluated as soon as they are received. Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce.

No benefits information has been provided by the employer.

No. 25650
Postdoctoral Research Scholar
UNIVERSITY OF IOWA
University of Iowa
214 Van Allen Hall
Iowa City, IA 52242
USA
Tel: 319-335-1690
FAX: 319-335-1753
Email Submission Address: christine-stevens@uiowa.edu

Attention: Christine Stevens

The University of Iowa is searching for a postdoctoral research scholar to work in high energy astrophysics in collaboration with Prof. Philip Kaaret. The work may include data analysis from X-ray observatories and the VERITAS TeV telescope array and development of instrumentation for the detection of X-rays and gamma-rays. Candidates must hold a Ph.D. in physics or astronomy. Experience in data analysis and/or instrumentation hardware is preferred. US citizenship or green-card status are preferred. Applicants should submit a curriculum vitae, a list of publications, and a statement of research interests to christine-stevens@uiowa.edu or Christine Stevens, Department of Physics and Astronomy, University of Iowa, Iowa City, IA 52242. Electronic submissions in pdf format only are acceptable. Applicants should also make arrangements for three letters of recommendation to be sent directly. Letters of recommendation can be sent via e-mail. Review of applications will begin on September 1st, 2009, and continue until the position is filled. The University of Iowa is an EEO/AA employer. Women and members of minority groups are strongly encouraged to apply.

No. 25658
Postdoctoral Position: Galaxy formation in the early Universe
PENN STATE UNIVERSITY
Dept. of Astronomy & Astrophysics
525 Davey Lab
University Park, PA 16802
USA
Tel: 814 863 7350
FAX: 814 863 2842
URL1: http://www.astro.psu.edu
Email Submission Address: yuexing@astro.psu.edu
Email Inquiries: yuexing@astro.psu.edu

Attention: Yuexing Li, Assistant Professor of Astronomy

Position /Title: Galaxy formation in the early Universe Institution: Pennsylvania State University

Submit Resumes To: Prof. Yuexing Li Department of Astronomy & Astrophysics The Pennsylvania State University 525 Davey Lab University Park, PA 16802

Email Submission Address: yuexing@astro.psu.edu Email Inquiries: yuexing@astro.psu.edu

The closing date for application: 09/30/2009

Job Description:

Applications are invited for a postdoctoral research position in galaxy formation. The successful candidate would work with Professor Yuexing Li and participate in any aspects of the program: the formation and evolution of galaxies and quasars in the early Universe with cosmological simulations; multi-wavelength properties of these objects with radiative transfer calculations; and cosmic reionization history. These projects involve both theoretical modelings and comparisons with observations.

The ideal candidate should have experience with numerical simulations or radiative transfer processes. A Ph.D. in astrophysics or related areas is required.

The position is available September 1, 2009 (negotiable). The review of applications will begin on July 1, 2009, and the search will continue until the position is filled. The appointment is for two years, renewable for a total of three years contingent upon continued funding.Please send a curriculum vitae with publication list, a statement of research interests, and three letters of recommendation to Prof. Yuexing Li at yuexing@astro.psu.edu.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No benefits information has been provided by the employer.

No. 25563
Postdoctoral Position for Low Frequency Cosmology (LUNAR Fellow)
NAVAL RESEARCH LABORATORY
4555 Overlook Ave., SW
Washington, DC 20375
Tel: 202-404-6329
FAX: 202-404-8894
Email Submission Address: Joseph.Lazio@nrl.navy.mil
Email Inquiries: Joseph.Lazio@nrl.navy.mil

Attention: Joseph Lazio, Astronomer

The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with an interest in using the 21-cm line as a cosmological and astrophysical probe of the Dark Ages and Epoch of Reionization. The successful candidate will be expected to carry out an innovative research program of scientific research, algorithmic development, or hardware development aimed at enabling current and future telescopes to use the highly redshifted 21-cm line.

The NRL Remote Sensing Division is a member of the Lunar University Network for Astrophysics Research (LUNAR) team, under the recently established NASA Lunar Science Institute (NLSI). One of the key foci of the LUNAR project is to advance the development of a future, low radio frequency lunar telescope designed to exploit the highly redshifted 21-cm line for cosmological and astrophysical studies of the Dark Ages and Epoch of Reionization. Studies to be conducted under this program could include, but are not limited to, • Science observations using existing data or by acquiring new data from a current low radio frequency telescope such as the VLA, GMRT, LOFAR, or the Long Wavelength Demonstrator Array; • Algorithm development, such as obtaining high dynamic range images, using existing low radio frequency data from a current telescope such as the VLA or GMRT; or • Antenna development, specifically including conducting tests of candidate antenna designs for a future low radio frequency lunar telescope.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for tow years, with a third year extension for satisfactory accomplishments in the first two years. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Each year, deadlines for submission to the NRC are February 1, May 1, and August 1. The current award stipend is $69,764 per year. US citizenship or permanent residency is required. Applications may be submitted at http://www.nationalacademies.org/rap/ . For further information contact Dr. Joseph Lazio at the above address; see also the NRL SNe/SNR/LFRA site. EOE/AAE.

No. 25577
Postdoctoral Position for Pulsar Timing Array Gravitational Wave Studies
NAVAL RESEARCH LABORATORY
4555 Overlook Ave., SW
Washington, DC 20375
Tel: 202-404-6329
FAX: 202-404-8894
Email Submission Address: Joseph.Lazio@nrl.navy.mil
Email Inquiries: Joseph.Lazio@nrl.navy.mil

Attention: Joseph Lazio, Astronomer

The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with an interest in detecting and studying gravitational waves via a pulsar timing array. The successful candidate will be expected to carry out an innovative research program aimed at improving the capabilities of current and future radio telescopes to detect and study gravitational waves or improving our knowledge of the source population for low frequency gravitational waves. Previous experience with pulsar observations is not a prerequisite. The NRL Remote Sensing Division participates in the North American Nanohertz Observatory of Gravitational Waves (NANOGrav), the focus of which is to assemble and use an array of millisecond pulsars to detect and study low frequency gravitational waves. Research topics to be conducted under this program could include, but are not limited to, • Studies of radio-wave propagation effects to understand and correct for these effects in pulsar timing programs; • Conducting timing observations of the known pulsar population to improve current limits on and detect gravitational waves; • Participating in on-going pulsar surveys designed at finding more millisecond pulsars; • Algorithm development, such as improved methods for RFI detection and excision or improved pulsar timing precision; or • VLBI surveys and observations to improve our knowledge of the supermassive black hole binaries thought to be the sources of low frequency gravitational waves. Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years, with a third year extension for satisfactory accomplishments in the first two years. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Each year, deadlines for submission to the NRC are February 1, May 1, and August 1. The current award stipend is $69,764 per year. US citizenship or permanent residency is required. Applications may be submitted at http://www.nationalacademies.org/rap/). For further information contact Dr. Joseph Lazio at the above address; see also the NRL SNe/SNR/LFRA site. EOE/AAE.

No. 25145
Postdoctoral Fellowships in Astrophysics
NAVAL RESEARCH LABORATORY
4555 Overlook Ave., SW
Washington, DC 20375
USA
Tel: 202-767-0668
FAX: 202-404-8894
URL1: http://www.nrl.navy.mil/
Email Submission Address: Namir.Kassim@nrl.navy.mil
Email Inquiries: Namir.Kassim@nrl.navy.mil

Attention: Namir Kassim, Research Physicist

The Remote Sensing Division of the Naval Research Laboratory (NRL) (http://www.nrl.navy.mil/) is seeking postdoctoral applications from those with an interest in radio astronomy. The successful candidate will be expected to carry out innovative research programs in

1. Any area of astrophysics where existing or planned low-frequency radio observations (e.g., with [E]VLA, VLBA, Arecibo, GMRT, GBT, LWA, LOFAR) may contribute, such as high-redshift radio galaxies, clusters of galaxies, supernova remnants and pulsars, studies of propagation effects, searches for extrasolar planets, or the solar system (e.g., Jupiter or the Sun);

2. Radio astronomy digital signal processing or radio frequency interference (RFI) mitigation techniques; or

3. Imaging and calibration algorithm development for the emerging suite of telescopes, including the Long Wavelength Array (LWA) and the EVLA.

NRL radio astronomers carry out a wide range of observational programs at the VLA, VLBA, and the GBT, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today. Observational programs, such as the VLA Low-frequency Sky Survey (http://lwa.nrl.navy.mil/VLSS/) and 74 and 330 MHz Galactic center (http://rsd-www.nrl.navy.mil/7213/lazio/GC/) observing programs are pursued both for their science and also to address challenges for future low-frequency interferometers. NRL is also part of the Southwest Consortium (SWC), a University-based consortium led by the University of New Mexico (UNM), that is developing the Long Wavelength Array (LWA) (http://lwa.unm.edu/). The LWA will explore the relatively neglected frequency regime below 80 MHz, by capitalizing on breakthrough ionospheric calibration techniques that inally permit development of very low frequency arrays larger than ~ 5 km. The ~ 400-km diameter LWA will realize improvements in both angular resolution and sensitivity by at least 2--3 orders of magnitude. The LWA frequency range favors studies of non-thermal and coherent (both known and unknown) emission sources, unique absorption processes, and provides an intrinsic link to shock physics, high-energy phenomena, and the high-red-shift Universe.

Successful candidates are normally resident at NRL in Washington, DC, but the option exists for residency in New Mexico, proximate to the University of New Mexico's Long Wavelength Array program. Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. US citizenship or legal US permanent residency is required. Application materials can be obtained at http://www.nas.edu/rap . Deadlines for applications include February 1, May 1, and August 1. For further information contact Dr. Namir Kassim at the above address. EOE/AAE

No. 25750 (New)
Simulating Galaxy mergers
STERREWACHT LEIDEN
PO-Box 9513
the Netherlands
Tel: +31 (0)71 527 5737
FAX: +31 (0)71 527 5743
URL1: http://http://www.strw.leidenuniv.nl/~spz/ ***(P.I. homepage)***
URL2: http://http://muse.li/ ***(MUSE project page)***
URL3: http://www.strw.leidenuniv.nl/ ***(Department page)***
Email Submission Address: drost@strw.leidenuniv.nl
Email Inquiries: spz@strw.leidenuniv.nl

Attention: J.C. Droste

We are looking for excellent graduate students to work in a research project on colliding galaxies with supermassive black holes. The candidate should start by January 2010, the position is for 4 years and will culminate in a PhD degree.

The objective is to study the merging of super-massive black holes in the central regions of galaxies throughout the process in which two galaxies merge. Our theoretical understanding of the circumstances under which super-massive black holes coalesce is poorly developed, in particular if the host galaxies contain little gas. The research will be conducted using hierarchical and hybrid simulation environments in with Barnes-Hut Tree-code and direct N-body integration methods will be combined in order to solve the equations of motion of the galaxies and their central black holes. The calculations will be run on a cluster graphical processing units and GRAPEs. The available positions require frequent interactions within the research team and with international collaborators. Successful candidates should have an Master degree in computational science, astrophysics or a related field. Experience in software development and programming in Python/C/C++/MPI/CUDA are an advantage, as is an interest and experience in galaxy mergers, the dynamics around super-massive black holes and gravitational dynamics in general.

Candidates are requested to submit in confidence a curriculum vitae and cover letter to J. Droste (mention "VICI" in the Subject heading). The names and contact information of 3 persons should be provided for reference. For full consideration, applications must be received by 1 November 2009.

PhD salary according to Organized Netherlands Universities includes 8% holiday and 8% end-of-year bonus. Medical/dental insurance can be acquired with discount

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No. 25751 (New)
PhD positions in Simulating Galaxy Mergers
STERREWACHT LEIDEN
P.O. Box 9513
the Netherlands
Tel: +31 (0)71 527 5737
FAX: +31 (0)71 527 5743
URL1: http://www.strw.leidenuniv.nl/~spz/ ***(PI hompage)***
URL2: http://muse.li/ ***(MUSE project page)***
URL3: http://www.strw.leidenuniv.nl/ ***(Sterrewacht Leiden homepage)***
Email Submission Address: drost@strw.leidenuniv.nl
Email Inquiries: spz@strw.leidenuniv.nl

Attention: Jeanne Droste

We are looking for excellent graduate students to work in a research project on colliding galaxies with supermassive black holes. The candidate should start by January 2010, the position is for 4 years and will culminate in a PhD degree.

The objective is to study the merging of super-massive black holes in the central regions of galaxies throughout the process in which two galaxies merge. Our theoretical understanding of the circumstances under which super-massive black holes coalesce is poorly developed, in particular if the host galaxies contain little gas. The research will be conducted using hierarchical and hybrid simulation environments in with Barnes-Hut Tree-code and direct N-body integration methods will be combined in order to solve the equations of motion of the galaxies and their central black holes. The calculations will be run on a cluster of graphical processing units. The available positions require frequent interactions within the research team and with international collaborators. Successful candidates should have an Master degree in computational science, astrophysics or a related field. Experience in software development and programming in Python/C/C++/MPI/CUDA are an advantage, as is an interest and experience in galaxy mergers, the dynamics around super-massive black holes, gravitational dynamics in general and grid computing.

Candidates are requested to submit in confidence a curriculum vitae and a cover letter with motivation to J. Droste (drost@strw.leidenuniv.nl mention "VICI" in the Subject heading). The names and contact information of 3 persons should be provided for reference. Applications must be received by 1 November 2009.

The appointment will be for 38 hours a week for a period of four years and leads to a PhD. The gross monthly salary will be in accordance with the University regulations and ranges from 2042Euro (first year) to 2612Euro (fourth year) plus an additional 8% holiday and 8% end-of-year bonus.

No. 25761 (New)
PhD Studentships in Astronomy at The University of Sydney
SYDNEY INSTITUTE FOR ASTRONOMY, THE UNIVERSITY OF SYDNEY
School of Physics A29
The University of Sydney, NSW 2006
Australia
Tel: 612 9351 3037
FAX: 612 9351 7726
URL1: http://www.physics.usyd.edu.au/sifa/Main/Astrophysics ***(Research opportunities at SIfA)***
URL2: http://www.usyd.edu.au/future_students/international_postgraduate_research/costs_scholarships/health_insurance.shtml ***(International students - health insurance)***
URL3: http://www.usyd.edu.au/future_students/international_postgraduate_research/costs_scholarships/scholarships/index.shtml ***(International students - scholarships information)***
Email Submission Address: sifa_enquiry@physics.usyd.edu.au
Email Inquiries: sifa_enquiry@physics.usyd.edu.au

Attention: Postgraduate Coordinator

Are you a high achieving student who wants to launch your research career in astrophysics? Where better than the largest and most successful research group in one of the world's most beautiful and livable cities!

The Sydney Institute for Astronomy (SIfA) invites applications for PhD scholarships within the School of Physics at The University of Sydney. With more than thirty research staff, we are among the largest and most successful astrophysics groups in Australia. A very wide variety of research topics are available including studies in cosmology, galactic archaeology, black holes, pulsars and exotic systems, stellar astrophysics and the detection of exoplanets. We have very strong linkages with Australia's national facilities (AAO, ATNF) and we operate two major scientific field stations: the MOST radio telescope and the SUSI long-baseline optical interferometer.

Eligible applicants will be exceptional students of any nationality who hold a 1st class honours degree or a masters (or equivalent) in Physics or a closely-related field. Scholarships will be awarded on a competitive basis.

Further enquiries can be directed to sifa_enquiry@physics.usyd.edu.au. Applications, supporting materials and letters of reference are due 31 October 2009 for a starting date in mid-2010.

Tuition and a tax-exempt stipend. Additional funding to support conference and observing travel is available, as well as scholarship top-ups for the highest-calibre applicants.

No. 25763 (New)
Several PhD fellowships in Astronomy and Astrophysics
INTERNATIONAL MAX PLANCK RESEARCH SCHOOL FOR ASTRONOMY & COSMIC PHYSICS, HEIDELBERG
Koenigstuhl 17
Germany
Tel:
FAX: +49-(0)6221-528-339
URL1: http://www.mpia.de/imprs-hd/ ***(research school homepage)***

Email Inquiries: imprs-hd@mpia.de

Attention: IMPRS Heidelberg, Christian Fendt

The "International Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg" (IMPRS-HD) invites applications for its PhD program. The school aims to offer outstanding research and training opportunities with excellent instrumental, observational, and theoretical research facilities at the Max Planck Institute for Astronomy, the Max Planck Institute for Nuclear Physics, the Astronomisches Rechen-Institut, the Landessternwarte Koenigstuhl, and the Institute of Theoretical Astrophysics. The main research topics carried out at these institutions are planet and star formation; exoplanets and substellar objects; stellar physics; astrometry; formation, evolution and dynamics of; active galactic nuclei and massive black holes; gravitational lensing; cosmology and structure formation; high energy and particle astrophysics; state-of-the-art instrumentation for astronomy and astroparticle physics.

IMPRS-HD is an independent part of the Heidelberg Graduate School for Fundamental Physics.

The fellowships are available for up to 3 years on a scale of 1000 - 1200 Euro monthly net income. Interested students are invited to apply by December 13, 2009 for the academic year starting in September 2010. An earlier start of the thesis research is welcome.

Applicants must have a Master's degree or Diplom (or equivalent) in Physics/Astronomy including a corresponding thesis. A comprehensive study of physics is essential.

Further details on IMPRS-HD and the application procedure can be found on our web-site at: www.mpia.de/imprs-hd/

No benefits information has been provided by the employer.

No. 25769 (New)
PhDs in Observational and Computational Astrophysics at Swinburne University
SWINBURNE UNIVERSITY OF TECHNOLOGY
Mail H39, PO Box 218
Hawthorn
Melbourne, Victoria 3122
AUSTRALIA
Tel: +61 3 9214 5818
FAX: +61 3 9214 8797
URL1: http://astronomy.swin.edu.au/study/postgradstudy.html ***(Information for PhD applicants)***
URL2: http://astronomy.swin.edu.au/study/phdprojects.html ***(Description of PhD projects)***
URL3: http://astronomy.swinburne.edu.au ***(CAS)***
Email Submission Address: mmurphy@swin.edu.au
Email Inquiries: mmurphy@swin.edu.au

Attention: Dr. Michael Murphy, Postgraduate Recruitment Coordinator

The Centre for Astrophysics & Supercomputing (CAS) at Swinburne University of Technology (Melbourne, Australia) invites applications for its PhD program and scholarships.

With 15 research faculty and over 25 postdoctoral researchers and students, CAS offers a friendly, vibrant and research-focused atmosphere where PhD students help conduct - and learn how to lead - cutting-edge research in all major areas of astronomy.

CAS recently signed a collaborative agreement with Caltech guaranteeing up to 20 nights per year on the twin 10-m Keck Telescopes in Hawaii. CAS is also home to The Green Machine, one of the most powerful supercomputers in Australia (~2000 nodes, ~10Tflops).

A range of PhD scholarships are available with tax-free stipends starting at AUS$23000 pa. In addition, PhD students are allocated a research budget to cover computing (e.g. laptop) and/or travel (e.g. conferences, telescope observing etc.).

Swinburne's Hawthorn campus is situated in a lively, urban setting just minutes by public transport from Melbourne's city centre. Melbourne, Australia's second-most populous city, is renowned for its restaurants, cafe-filled laneways, bars, boutiques, theatres, galleries, city parks, sports venues and teams.

For details about postgraduate study at CAS, including available supervisors, PhD topics and how to apply, see the above web links.

The formal application deadline is October 29, 2009. However, an Expression of Interest must first be submitted, and potential applicants must discuss possible PhD projects with possible supervisors well before the deadline. All application materials must reach CAS by October 23, 2009.

No benefits information has been provided by the employer.

No. 25780 (New)
PhD Scholarships in Astronomy and Astrophysics
MONASH UNIVERSITY
Tel:
URL1: http://www.cspa.monash.edu.au/ ***(CSPA Webpage)***
URL2: http://www.cspa.monash.edu.au/opportunities/phd.html ***(Example PhD topics currently available)***
URL3: http://www.mrgs.monash.edu.au/scholarships/apply/ ***(URL for applications)***
Email Inquiries: john.lattanzio@sci.monash.edu.au

Attention: Professor John Lattanzio

The Centre for Stellar and Planetary Astrophysics at Monash University is accepting applications for entry to its PhD program. Scholarships are available that cover both living expenses as well as tuition fees.

CSPA specialises in theoretical research into stars and planets, but covers many other areas as well. Details of staff and projects can be found at the listed URLs. Observational projects as well as combined theory/observing projects are encouraged. One of our strengths is numerical and computational modelling.

Tax-free PhD scholarships are available starting at AUS$22500 per annum and include a travel component for attending conferences or research centres within Australia and overseas.

CSPA is housed at the main campus of Monash University in Melbourne, Australia's most livable and cosmopolitan city. Melbourne is Australia's second largest city, and is famous for it's high quality food and wine, with many inexpensive restaurants, cafes and bars. It is the cultural and sporting capital of Australia.

For further information, including areas of study, research topics etc, see the given URLs. For any enquiries please email Prof John Lattanzio at john.lattanzio@sci.monash.edu.au

Applications are made online and close on October 31. You are advised to contact a CSPA staff member well before then to help with the application.

Health insurance is provided.

No. 25804 (New)
PhD position in Stellar Evolution and Nucleosynthesis
UTRECHT UNIVERSITY
P.O. Box 80000
The Netherlands
Tel: +31 30 2535209
FAX: +31 30 2535201
URL1: www.astro.uu.nl
URL2: www.astro.uu.nl/siu/vacancies.html
Email Submission Address: O.R.Pols@uu.nl
Email Inquiries: O.R.Pols@uu.nl

Attention: Dr. Onno Pols

Applications are invited for a four-year PhD position on the formation and evolution of carbon-enhanced metal-poor (CEMP) stars. These stars comprise about 20% of the most metal-poor stars in the Galactic halo, but their origin is not well understood. The aim of this project is to model the formation of CEMP stars, which are thought to result from mass transfer from a more massive binary companion during its asymptotic giant branch phase, and the further evolution of their surface abundances. The project will build on existing stellar evolution, nucleosynthesis and binary population synthesis codes, and results will be compared to the most recently observed samples of metal-poor stars.

The PhD student will work under supervision of Dr Onno Pols at the Astronomical Institute of Utrecht University, and in collaboration with researchers currently in Australia, Canada, Belgium and Spain. Candidates must hold a Master's degree in (astro)physics at the start of the PhD project. Preference will be given to candidates having some experience with numerical modelling. The position is funded by NWO, the Netherlands Organisation for Scientific Research. Salaries are according to the Collective Employment Agreement for Dutch Universities and start at Euro 2042 gross/month, plus additional holiday and end-of-year bonuses of 8% each.

Consideration of applications will begin October 5, 2009 and will continue until the position is filled. A starting date in January 2010 is anticipated. Applications should include a curriculum vitae, a brief statement of research interests and two names of researchers willing to write letters of reference.

No benefits information has been provided by the employer.

No. 25789 (New)
Data Analysis Support Scientist
SETI INSTITUTE
515 N. Whisman Road
Mountain View, CA 94044
USA
Tel: 650.961.6633
FAX: 650.960.4505
Email Submission Address: hr@seti.org
Email Inquiries: hr@seti.org

Attention: Victoria Schwerin, Human Resources

Data Analysis Support Scientist

Position Description: The SETI Institute is seeking a scientist/engineer to help analyze data from the Kepler Photometer as a member of the Kepler Science Office, located at NASA-Ames Research Center. This Support Scientist will develop algorithms to mitigate systematic sources of noise; assist in the incorporation of these algorithms into the Kepler processing pipeline; work to optimize the performance of the pipeline; and monitor the resulting data products.

The successful candidate must possess a strong background in the analysis of data from flight science missions, in developing and implementing software to process and reduce science data, and in tracking and trending instrument performance. A background which includes the development of flight hardware and the reduction and analysis of large astronomical data sets is highly desirable. Experience with operational science processing pipelines for NASA flight missions is also desirable.

Tasks include analyzing photometer data, modeling key departures from the ideal, and identifying, prototyping, testing, and documenting algorithms for photometer performance analysis and the results of these analyses. Photometer performance analysis tasks include the identification and isolation of noise sources and levels, the determination of performance impacts on the science to be accomplished, and the development of techniques and methods to mitigate significant error sources. Supporting analysis tasks include modeling the instrument to understand performance bounds.

Kepler is a NASA Discovery mission designed to detect and characterize habitable, earth-like planets orbiting sun-like stars. The spacecraft has been acquiring data since May, 2009 and is expected to operate at least through September, 2012. For more information about the Kepler mission, see http://www.nasa.gov/kepler . The successful candidate will be expected and encouraged to devote 20% of their time to astronomical research of interest to Kepler, actively collaborating with other Science Office and Science Team members, as appropriate. Education / Requirements: A Ph.D. or equivalent career experience in Electrical Engineering, Computer Science, Physics, or a related field is required. Qualifications/ Required skills: Candidates must have a minimum of two years experience analyzing flight data. Experiences where scientific success depended on characterizing and mitigating unexpected instrument artifacts or calibration problems are of particular relevance (Examples would be pre-COSTAR Hubble, Deep Impact, and GP-B). A candidate's ability to describe such problems and their role in solving them will be a key part of the interview process.

A personal and demonstrable scientific interest in exoplanets, asteroseismology, or planetary science is highly desirable. Excellent oral and written communication skills are important. Experience with MATLAB is required, and familiarity with the FITS standard is recommended. The ideal candidate is especially attentive to details, pro-active, and available. Initiative to work both independently and as a team player, are important to overall success.

Example of Job Tasks • Analyze data from the Kepler Photometer • Formulate analytical models to describe performance-limiting artifacts and distortions identified in photometer data • Develop numerical methods for removing identified artifacts and distortions • Prototype data calibrations and corrections in MATLAB • Serve as Kepler Duty Scientist on a rotating basis • Document analysis, prototype software and experimental results • Prepare and present results at workshops and conferences

Special Requirements: • Some evening and weekend commitments • Ability to work in a fast-paced environment with high expectations for managing the unexpected within a designated timeframe • Willingness to accept major responsibilities and to perform under pressure • Well developed interpersonal and diplomacy skills

On-Going Expectations: • Personal commitment to achieving a high level of performance

The mission of the SETI Institute is to explore, understand and explain the origin, nature and prevalence of life in the universe. We believe we are conducting the most profound search in human history – to discover our beginnings and our place among the stars. The SETI Institute is a private, nonprofit organization dedicated to scientific research, education, and public outreach. Founded in 1984, the Institute today employs over 140 scientists, educators and support staff. The SETI Institute is an Equal Opportunity Employer.

For consideration, apply online:

http://www.seti.org/jobs/kepler-analysis

Open until 10/01/2009 or filled.

No benefits information has been provided by the employer.

No. 25790 (New)
Data Archive Support Scientist
SETI INSTITUTE
515 N. Whisman Road
Mountain View, CA 94043
Tel: 6509616633
FAX: 6509616633
Email Submission Address: hr@seti.org
Email Inquiries: hr@seti.org

Attention: Victoria Schwerin, HR Assistant

Data Archive Support Scientist Position Description: The SETI Institute is seeking a scientist/astronomer to help archive data from Kepler as a member of the Kepler Science Office, located at NASA-Ames Research Center. This Support Scientist will assist in the verifying, validating, managing, coordinating, and archiving of the data produced by the Kepler photometer, ground-based follow-up observations, and a variety of off-line analyses with the production of the Kepler Results Catalog as their primary goal.

The successful candidate must possess a strong background in exoplanet science with experience managing large volumes of data from a variety of diverse sources. Familiarity with optical CCD pixel-level data, high-precision photometry, astrometric-centroid and time-series analysis, light curve modeling, planetary dynamics, transit photometry, and stellar astrophysics are highly desirable. Experience with ground-based photometric and spectroscopic observing techniques would be helpful. Experience with the large data volumes typical of a space mission, experience with the diversity of data formats typical of ground-based observing programs, and a desire to merge the two requires some knowledge of interface control documents, configuration management, and system engineering and an appreciation for their importance.

Tasks include the verification and validation of Kepler pipeline processing for flight data, distribution of results to science team members for analysis and ground-based follow-up, and reception of analyses, models, images, spectra, plots, and data from this team. The successful candidate will prioritize planetary candidates for follow-up observations, federate new data sets with existing data sets, and derive a consistent set of parameters for a particular planetary system given multiple values (or no values) for some parameters. This work relies heavily on the Kepler processing pipeline and the web-based Science Analysis System which has been developed for archiving, displaying, and manipulating Kepler data products.

The focus of this work is the production of the Kepler Results Catalog, which will be released periodically until final release in September, 2013. Kepler is a NASA Discovery mission designed to detect and characterize habitable, earth-like planets orbiting sun-like stars. For further information about Kepler, see www.nasa.gov/kepler. The successful candidate will be expected and encouraged to devote 20% of their time to astronomical research of interest to Kepler, actively collaborating with other Science Office and Science Team members, as appropriate. Education / Requirements: A Ph.D. or equivalent career experience in astronomy, physics, or a related field is required. Qualifications/ Required skills: Candidates must have a minimum of two years experience in exoplanet research. Excellent oral and written communication skills are important. The ideal candidate is especially attentive to details, pro-active, and available. Initiative to work both independently and as a team player, are important to overall success. Experience with MATLAB is required, familiarity with the FITS standard and Oracle databases is recommended. Example of Job Tasks • Evaluate and assess Kepler pipeline photometry, centroids, and other data products originating from the flight segment for correctness and quality • Approve the distribution of data from the Science Analysis System to Science Team members • Evaluate and assess ground-based spectra, images, and parameters for correctness and quality • Oversee the ingestion of data into the Science Analysis System by operators • Determine “best” stellar and planetary parameters for use in the Kepler Results Catalog • Prepare and present results at workshops and conferences

Special Requirements: • Ability to work in a fast-paced environment with high expectations for managing the unexpected within a designated timeframe • Willingness to accept major responsibilities and to perform under pressure • Well developed interpersonal and diplomacy skills On-Going Expectations: • Personal commitment to achieving a high level of performance

The mission of the SETI Institute is to explore, understand and explain the origin, nature and prevalence of life in the universe. We believe we are conducting the most profound search in human history – to discover our beginnings and our place among the stars. The SETI Institute is a private, nonprofit organization dedicated to scientific research, education, and public outreach. Founded in 1984, the Institute today employs over 140 scientists, educators and support staff. The SETI Institute is an Equal Opportunity Employer.

For consideration, apply online: http://www.seti.org/jobs/kepler-archive

Open until 10/01/2009 or filled.

No benefits information has been provided by the employer.

No. 25827 (New)
Project/System Scientist
ASTROPHYSIKALISCHES INSTITUT POTSDAM (AIP) - INNOFSPEC
An der Sternwarte 16
Potsdam, Brandenburg 14482
Germany
Tel: +49-331-7499-382
FAX: +49-331-7499-436
URL1: http://www.aip.de/news/jobs/ *(local job advert)*
URL2: http://www.innofspec-potsdam.de *(innovation center webpage)*
URL3: http://www.aip.de *(AIP webpage)*
Email Submission Address: rhaynes@innofspec-potsdam.de
Email Inquiries: mmroth@aip.de

Attention: Roger Haynes, Dr

The Astrophysikalisches Institut Potsdam (AIP) is offering a scientist position for the innoFSPEC innovation center. The successful applicant will participate in fundamental research and instrumentation development in the area of multi-channel spectroscopy, specifically fibre-optical integral field and multi-object spectroscopy primarily for astronomy. As the innovation centre project/system scientist, he/she will oversee the management and system design of the research projects.

Applicants must have experience in instrumentation research and development,and must have significant experience with project management and system engineering.

innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the southwestern border of Berlin. About 100 scientists work on a variety of astrophysical topics. It has a strong record in the development of instrumentation for 3D spectroscopy (e.g. PMAS, MUSE, VIRUS), with access to ESO, the LBT, and other observatories. Its mission also includes major contributions to ELT instrumentation.

The initial appointment is for three years with a possible extension to five years, dependent on external funding. The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. It values diversity.

To apply, please send a curriculum vitae including statements on education, skills, and experience to the given address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin October 31th, 2009 and continue until the position is filled.

Employer contributions to medical and dental insurance, maternity leave, and retirement benefits.

No. 25746
Senior Opto-Mechanical Engineer
NATIONAL SOLAR OBSERVATORY/ADVANCED TECHNOLOGY SOLAR TELESCOPE
PO Box 26732
Tucson, AZ 85726-6732
USA
Tel: 520-318-8116
FAX: 520-318-8456
URL1: http://atst.nso.edu/
Email Submission Address: hrnoao@noao.edu

Attention: National Solar Observatory, Human Resources Office

The National Solar Observatory (NSO) seeks an experienced Opto-Mechanical Engineer to join the Advanced Technology Solar Telescope (ATST) Project Office in Tucson. The ATST Project is managed by the NSO, which is operated by the Association of Universities for Research in Astronomy, Inc., under a cooperative agreement with the National Science Foundation. The project is preparing for the construction phase that will place the world's largest solar observatory in operation in 2017.

The successful candidate will help design, specify and, if approved, monitor procurement of optical components for the ATST and support integration, test and commissioning. Duties will include; working with other project personnel and vendors to finalize system and component hardware designs; ensuring interface and performance requirements are met; reporting by both presentations and written reports. Travel will be required. If approved, opportunities to participate in on-site integration, testing and commissioning, as well as transitioning the project into operations may exist.

The position requires a Bachelor degree in Mechanical or Optical Engineering plus a minimum of 10 years related work experience. Experience in contract monitoring, system integration and system testing is strongly preferred. Familiarity with solid modeling CAD systems and structural finite element analysis is preferred. Experience with large aperture optical systems, knowledge of optical fabrication and test methods, and familiarity with optical ray tracing codes, as well as project management experience would be a plus.

When applying for this position please reference Sr. Opto-Mechnical Engineer - Job #965

Send electronic (preferred) resume to hrnoao@noao.edu or mail to:

Human Resources Office National Optical Astronomy Observatory P.O. Box 26732 Tucson, Arizona 85726-6732 Email: hrnoao@noao.edu FAX: 520-318-8494

NOAO and NSO are affirmative action and equal employment opportunity employers. Preference granted to qualified Native Americans living on or near the Tohono O'Odham Reservation.

NOAO actively support efforts to broaden participation in all Observatory activities. Women and candidates from under-represented minorities are particularly encouraged to apply.

No benefits information has been provided by the employer.

No. 25777 (New)
Instrument Program Coordinator (IPC)
UNIVERSITY OF FLORIDA ASTRONOMY DEPARTMENT
Tel:
URL1: www.hr.ufl.edu/job *(Job Reference number 0802548)*

Attention:

The University of Florida invites applications for the Instrument Program Coordinator (IPC) Position at the University of Florida Astronomy Department. The IPC is responsible for the management of the Astronomy Instrumentation Service Center (AISC), including all its engineering resources, and the performance of instrumentation development tasks undertaken in part or whole with these resources. The critical core of this responsibility involves the life-cycle breadth of such tasks from instrument conceptual design and proposal preparation, through detailed design, development, testing, delivery, documentation, and finally close-out.

The IPC supports Principal Investigators (PIs) in the successful completion of their astronomical instrumentation projects by providing administration, coordination and management of the AISC resources. The IPC works with the Instrument Advisory Committee (IAC) of the Astronomy department to identify, develop, implement, and expand AISC programs. The IPC reports directly to the Chair of the Astronomy Department.

Qualifications: Master's degree in an appropriate area of specialization or a bachelor's degree in an appropriate area of specialization and three years of appropriate experience with solid working knowledge of project management, scheduling and accounting required. Prefer business administration education with technical expertise in electrical, mechanical, software, and/or optical engineering.

The successful candidate must have proficient understanding of business tools, engineering methodology, knowledge of the budgetary, accounting procurement

and processes in an academic environment. Must be a highly motivated professional with a capacity for hard work and the ability to independently plan, organize, and coordinate own responsibilities toward meeting the goals of the department. Must also have excellent written and oral communication skills as well as interpersonal skills. Computer literacy, including word processing, spread sheets, project management, database development and maintenance is a must. The salary range is: $75,000-$95,000, commensurate with qualifications and experience.

To view application instructions and complete an online application, visit www.hr.ufl.edu/job. Reference number for this vacancy is 0802548. To ensure full consideration please apply by September 7, 2009, when the Search Committee will begin reviewing applications. Applications will be accepted until the position is filled. If an accommodation due to a disability is needed to apply for this position, please call (352) 392-2HRS or the Florida Relay System at (800) 955-8771 (TDD).

The University of Florida is an Equal Opportunity Institution

For complete information on benefits, please visit: http://www.hr.ufl.edu/benefits/default.asp

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No. 25820 (New)
The Combined Array for Research in Millimeter-wave Astronomy Assistant Director for Operations
UC BERKELEY, RADIO ASTRONOMY LABORATORY
601 Campbell Hall
Berkeley, CA 94720
USA
Tel: 510-642-8411
FAX: 510-642-3411
URL1: http://www.mmarray.org
Email Submission Address: dbacker@berkeley.edu
Email Inquiries: lmundy@mmarray.org

Attention: Don Backer, Director, Assistant Director Position

Job Description: The Combined Array for Research in Millimeter-wave Astronomy (CARMA) seeks an Assistant Director for Operations who will oversee the operations of the CARMA and coordinate activities at the member institutions. The CARMA consists of six 10-m telescopes, nine 6-m telescopes, and eight 3.5-m telescopes which are utilized as an interferometric array to image the millimeter wavelength emission from the Solar System, our Galaxy, and the Universe. The Array is located at Cedar Flat in the Inyo Mountains with a development and operations center at the Owens Valley Radio Observatory near Big Pine California.

For more general information about CARMA, please visit our website: http:/www.mmarray.org .

The Assistant Director for Operations oversees the daily operations of the array, coordinates maintenance of equipment, systems, and services needed to carry out operations with CARMA, and supports the CARMA Director and the CARMA Science Steering Committee in determining and allocating budgets, priorities, and effort among the partner institutions. He/She also coordinates development efforts and reporting requirements of the University partners, and prepares, in consultation with the Director, reports, schedules, and budgets as required by the CARMA Board and the NSF.

The successful candidate will have a Ph.D. in Physics, Astronomy, or equivalent. He/she must have management experience. It is expected that the candidate will have a scientific interest in array and up to 20% effort may be devoted to astronomical/technical research programs. Preference will be given to applicants with relevant technical background and experience in radio astronomy. The Assistant Director for Operations will work at the Owens Valley/Cedar Flat site.

Applicants should submit a 1-2 page statement of purpose, a resume listing relevant experience, and a list of three individuals from whom letters of reference can be requested. All material from applicants must be received prior to Sept 30, 2009 for full consideration.

Questions about the position may be sent to the email address above or lmundy@mmarray.org.

The University of California is an Equal Opportunity/Affirmative Action Employer. We encourage applications from those who embrace our commitment to excellence in teaching, research, and public service.

http://atyourservice.ucop.edu/

No. 25825 (New)
Project Finance Manager
AUSTRALIAN NATIONAL UNIVERSITY, RESEARCH SCHOOL OF ASTRONOMY AND ASTROPHYSICS
Mount Stromlo Observatory
Cotter Road
Weston, ACT 2611
Australia
Tel: +61 2 6125 0292
FAX: +61 2 6125 0233
URL1: http://jobs.anu.edu.au *(Online applications - preferred)*
Email Submission Address: michelle.mcwilliam@anu.edu.au
Email Inquiries: Mike.Fowler@anu.edu.au

Attention: Michelle McWilliam, Human Resources Officer

The ANU Research School of Astronomy and Astrophysics is seeking a highly qualified individual to undertake the financial administration of the School's technical and engineering participation in the international, billion-dollar Giant Magellan Telescope project. The Project Finance Manager will provide expert financial management for a range of projects arising from the Giant Magellan Telescope, such as advanced instrumentation and other projects involving national and international collaborators, and will provide dedicated support to the Program Manager in the realisation of these projects. The successful candidate will have:

* a higher degree in Accounting, Commerce or Business Administration; * a graduate qualification in project management, including project costing and budget management; * at least four years financial management experience in the undertaking of a multi-million dollar scientific, technical or engineering project; * advanced computing skills including expertise in the use of generic financial management programs, and project management software; * extensive experience in working with senior industry personnel in a major projects environment.

This is a proposed position for a fixed term period of five years. Full details of the finalised position will be available at http://info.anu.edu.au/hr/Jobs

Proposed salary range 84,983 - 89,178 AUS$ p/a

No. 25826 (New)
Center Manager
ASTROPHYSIKALISCHES INSTITUT POTSDAM (AIP) - INNOFSPEC
An der Sternwarte 16
Potsdam, Brandenburg 14482
Germany
Tel: +49-331-7499-382
FAX: +49-331-7499-436
URL1: http://www.aip.de/news/jobs/ ***(local job advert)***
URL2: http://www.innofspec-potsdam.de ***(innovation center website)***
URL3: http://www.aip.de ***(AIP web page)***
Email Submission Address: rhaynes@innofspec-potsdam.de
Email Inquiries: mmroth@aip.de

Attention: Roger Haynes, Dr

The Astrophysikalisches Institut Potsdam (AIP) is offering a scientist position for the innoFSPEC innovation center. The successful applicant will participate in fundamental research and instrumentation development in the area of multi-channel spectroscopy, specifically fibre-optical integral field and multi-object spectroscopy primarily for astronomy. As the innovation centre manager, he/she will oversee the centre activities with responsibility for management, finance, and the development of future research and funding strategies.

Applicants must hold a degree in physics, astronomy, computer science, or related disciplines, and must have significant experience with leadership and management.

innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the southwestern border of Berlin. About 100 scientists work on a variety of astrophysical topics. It has a strong record in the development of instrumentation for 3D spectroscopy (e.g. PMAS, MUSE, VIRUS), with access to ESO, the LBT, and other observatories. Its mission also includes major contributions to ELT instrumentation.

The initial appointment is for three years with a possible extension to five years, dependent on external funding. The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. It values diversity. To apply, please send a curriculum vitae including statements on education, skills, and experience to the given address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin October 31th, 2009 and continue until the position is filled.

Employer contributions to medical and dental insurance, maternity leave, and retirement benefits.

No. 25712
Director of Programmes
ESO - EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE
Karl-Schwarzschild-Str. 2
Germany
Tel: +49 89 3200 6865
FAX: +49 89 3200 6497
URL1: https://jobs.eso.org/ESOCP370/documents/DOC0000242.PDF
Email Submission Address: vacancy@eso.org
Email Inquiries: vacancy@eso.org

Attention: Samantha Austin-May, Human Resources

ESO is opening the position of Director of Programmes

The Director of Programmes reports directly to the Director General and assists him in developing the overall strategy for ESO Programmes and is accountable for their execution. The Programmes Directorate comprises currently three Divisions with approximately 150 staff responsible for VLT, VLTI, VST, VISTA, E-ELT, instrumentation and adaptive optics development, and provision of technical support to ALMA. As an active scientist and Full Astronomer in the ESO Astronomy Faculty he/she also maintains personal scientific and technical contacts internationally at the highest level.

The Director of Programmes will: • Be responsible for the setting of programmatic priorities and resource planning; • Conduct regular Programme reviews; • Provide regular information and status reports to the Director General; • Report on ESO Programmes as required by Council and other external committees and to the community at large via conferences and special events; • Work together with the Director General, the other Directors and the Division Heads to develop and implement ESO-wide policies and strategies; • Identify opportunities for improvement/development within and across Divisions, and for further development/growth of the organization; and • Assist the Director General in developing strategic plans for ESO's overall programmes.

The tasks are not limited to the above and a flexible approach and ability to adapt to an evolving situation is required.

Basic requirements for the position include a PhD in astronomy, astrophysics, physics or related fields; a proven record of scientific leadership and at least 10 years' experience in international scientific collaborations. Substantial management and leadership experience within a scientific organisation, preferably international, is also required. Excellent communication skills and a very good knowledge of English are essential. The Director of Programmes is a member of the ESO Astronomy Faculty and is encouraged and expected to conduct active astronomical research.

Key Competences:

• The ability to think strategically, to take effective decisions and provide leadership. • Seeks to understand the perspective of key decision makers and partners – thinks through their needs and interests to identify their agenda. • Builds strong and effective links within and outside the organization. • Demonstrates initiative, pro-activeness and good negotiation skills. Duty Station: Garching near Munich, Germany, with regular duty travels to Chile.

Serious consideration will be given to outstanding candidates willing to be initially seconded to ESO on leave from their home institutions.

If you are interested in working in areas of frontline technology and in a stimulating international environment, you are invited to apply online at https://jobs.eso.org/. Applications must be completed in English and should include a motivation letter and CV.

The position requires three letters of reference to be sent to vacancy@eso.org.

The review of application will start on 1 September 2009; however applications will be accepted until the position is filled.

We offer an attractive remuneration package including a competitive salary (tax-free), comprehensive social benefits and financial help in relocating your family. The initial contract is for a period of three years with the possibility of a fixed-term extension. Either the title or the grade may be subject to change according to qualification and the number of years of experience.

No. 25707
Associate Director for Science Operations
GEMINI OBSERVATORY
Tel:
URL1: www.gemini.edu

Attention: gemini-jobs@gemini.edu

The GEMINI OBSERVATORY is seeking a senior astronomer for the position of ASSOCIATE DIRECTOR FOR SCIENCE OPERATIONS. The successful applicant will provide scientific direction and oversight of the Observatory's science systems and will work closely with the Heads of Science Operations for Gemini South and Gemini North to ensure consistency of science operations across the two sites. Requires working as part of the high-level management team of the Observatory to maintain an effective, streamlined and standardized observing process at both Gemini Telescopes.

The position provides overarching scientific management of new science operations systems under development at Gemini. This includes the new Data Flow System and Products Project that involve data flow management, data reduction tools and the Gemini Science Archive. This position also manages Gemini's Adaptive Optics Science Team which has members as both sites. Through his/her leadership role in the science staff and the operations development program, this key member of the senior management team of the Observatory will participate in defining Gemini's evolving strategic vision.

Ph.D. astronomers actively pursuing research with experience in science and data systems management who are invigorated by and are willing to take on a new challenge are invited to apply. The desired starting date for the position is April 2010. The appointment is at the senior scientist level and is based in La Serena Chile. Under exceptional circumstances, a candidate wishing to be based in Hilo, Hawaii may be considered. This position requires extensive travel and extended stays in Hilo, Hawaii. The successful candidate will have time available for astronomical research focusing on areas in which Gemini can make a major impact.

The selected candidate will be an employee of AURA, which provides an excellent compensation and benefits package. Send current resume and research statement along with cover letter relating your experience and education to the needs of the position. Please include the names and contact information of three individuals familiar with your work and credentials from whom a reference may be obtained.

The consideration and evaluation of candidate materials will begin September 1, 2009 and will continue until the search has concluded.

EOE/AA

No benefits information has been provided by the employer.

No. 25787 (New)
Software Engineer III
NATIONAL RADIO ASTRONOMY OBSERVATORY, GREEN BANK, WV
Tel:
URL1: careers.nrao.edu/applicants/Central?quickFind=50398

Attention: Human Resources Department

The Robert C. Byrd Green Bank Telescope (GBT) is the world's largest fully steerable telescope. Working at wavelengths ranging from 100cm through 3mm, the GBT supports a diverse range of scientific research. Additionally, the GBT has an ongoing program of research and development projects which keeps the telescope at the cutting edge of science and technology. The Green Bank observatory combines an academic setting with a rural environment.

The Software Development Division at the Robert C. Byrd Green Bank Telescope (GBT) in Green Bank, WV, is seeking a Software Engineer to provide support for the scientists who use the GBT. The successful candidate will join a team of professionals engaged in research and development in the fields of science, engineering, software development, and education. Work will likely be directed initially toward improvements in the post-observing data analysis and reduction software, as well as developing data reduction and analysis software infrastructure for existing instrumentation.

A minimum of a B.S. degree in astronomy, physics, computer science, or related field is required. Advanced education or other acquired background in radio astronomy, physics, astronomical data reduction, or spectroscopy is desirable, as is experience in IDL, object-oriented programming, and/or Python. Excellent verbal and written communication skills are required.

Applicants can apply online at https:\\careers.nrao.edu . Review of applications will begin immediately; however, applications will be accepted until the position has been filled. NRAO is an Equal Opportunity Employer - D/V/M/F

Medical and dental insurance, retirement benefits, vacation and sick leave accrual.

No. 25793 (New)
Astronomy staff positions at ASTRON (Dwingeloo, the Netherlands)
ASTRON
Oude Hoogeveensedijk 4
Dwingeloo, NL 7991 PD
The Netherlands
Tel: +31521595100
FAX: +31521595101
URL1: www.astron.nl
Email Submission Address: personnel@astron.nl
Email Inquiries: morganti@astron.nl

Attention: Ms. Diana Verweij, Head of Human Resources

Astronomy staff positions at ASTRON (Dwingeloo, the Netherlands) Deadline: October 15, 2009

The Astronomy Group at ASTRON (the Netherlands Institute for Radio Astronomy) invites applications for staff positions. These positions offer exciting opportunities for innovative research in radio astronomy, using world-class instruments such as the new Low Frequency ARray (LOFAR), the Westerbork Synthesis Radio Telescope (WSRT) and the European VLBI Network (EVN). The successful candidate should have an excellent record in astronomical research and publications. He/she is expected to carry out innovative research in his/her own field of expertise, using ASTRON telescope facilities as well as other world-class astronomical instruments. In addition, he/she is expected to take part in defining, developing and commissioning new facilities in which ASTRON is involved. The appointments are initially for two years and may then become permanent subject to positive evaluation. Research interest and experience in observational radio astronomy is desirable, but candidates with other backgrounds are also encouraged to apply. Affinity with instrumentation or software is also valued.

ASTRON is building LOFAR, a cutting-edge, low-frequency, multi-field aperture array telescope that is using innovative technologies and novel software

approaches. This telescope has very recently started producing unique data in the relatively unexplored spectral window below 200 MHz. ASTRON also operates the WSRT. APERTIF (APERture Tile in Focus), a next generation observing system using focal plane array technology, is being developed for the WSRT in order to significantly expand its field of view, enabling new types of astronomical research. The WSRT also participates in the European and Global VLBI Networks (including e-VLBI) and ASTRON hosts the Joint Institute for VLBI in Europe (JIVE). ASTRON has an international reputation for the design and construction of future large radio telescopes (e.g. SKA) and is heavily involved in developing parallel and Grid computing techniques for radio astronomy. Together with other international partners, ASTRON is currently building a prototype dense aperture array (EMBRACE), which will soon be commissioned.

Astronomers at ASTRON are active in many frontline research areas: galaxy structure and evolution, the ISM and IGM, pulsars and compact objects, the transient radio sky, AGN evolution and studies of the magnetic universe, large radio continuum and HI surveys, deep fields, and gravitational lensing. They are also heavily involved in the commissioning of LOFAR, active in all LOFAR key science projects and involved in preparing for the wide-field astronomy that will be made possible with instruments like APERTIF. Successful candidates will be encouraged to be involved in exploiting these new facilities. Other front-line research facilities available to Dutch astronomers include the ESO-VLT(I), ALMA, JCMT and the ING telescopes.

Letters of application should be sent to personnel@astron.nl before the deadline of 15 October 2009. Your application should include a CV, scientific interests, a research proposal and three letters of reference. Successful candidates will be in the formal employment of the Netherlands Organisation for Scientific Research (NWO), at a salary scale commensurate with age and experience. Generous relocation expenses, as well as an excellent package of benefits and assistance with finding accommodation will be provided (see also www.astron.nl/about-astron/careers/careers). Applicants of any nationality are eligible to apply. Your work place is the ASTRON headquarters, located in Dwingeloo (the Netherlands). Collaboration is encouraged with the nearby university astronomy departments in Amsterdam, Groningen, Leiden, Nijmegen and Utrecht. Successful candidates will have access to excellent computational facilities and travel support. For enquiries please contact: Dr. Raffaella Morganti (morganti@astron.nl), head of the Astronomy Group.

No benefits information has been provided by the employer.

No. 25794 (New)
Software Engineer II
NATIONAL RADIO ASTRONOMY OBSERVATORY
Tel:
URL1: careers.nrao.edu/applicants/Central?quickFind=50400

Attention: Human Resources Department

The Robert C. Byrd Green Bank Telescope (GBT) is the world's largest fully steerable telescope. Working at wavelengths ranging from 100cm through 3mm, the GBT supports a diverse range of scientific research. Additionally, the GBT has an ongoing program of research and development projects which keeps the telescope at the cutting edge of science and technology. The Green Bank observatory combines an academic setting with a rural environment.

The National Radio Astronomy Observatory Green Bank Dynamic Scheduling Project is seeking a Software Engineer for the Dynamic Scheduling System at their Green Bank, WV location to help design, develop, implement, and support the Dynamic Scheduling System which is broken into three major components: a web application built with the Django web development framework, a series of custom user interfaces built with the Google Web Toolkit, and the core scheduler implemented in the functional programming language, Haskell. Further information on the Dynamic Scheduling System can be found at: http://www.gb.nrao.edu/DSS/

A minimum of a B.S. degree in astronomy, physics, computer science, or related field is required. Advanced education or other acquired background in radio astronomy, physics, astronomical data reduction, or spectroscopy is desired. Four or more years of experience in the design and implementation of software in a structured environment is required, with exposure to all aspects of the software development life cycle. Experience with object-oriented programming languages, especially Python and Java is required as is experience with web development. A working knowledge of web development frameworks and tools, especially Django and Ext GWT, is highly desirable as is knowledge of a functional programming language, especially Haskell. The capability to successfully collaborate with peers on projects is a must, as are excellent written and verbal communication skills.

Applicants can apply online at https:\\careers.nrao.edu and should include a resume and cover letter. Review of applicants will begin immediately; however, applications will be accepted until the position is filled. NRAO is an Equal Opportunity Employer – D/V/M/F.

Medical and dental insurance, retirement benefits, vacation and sick leave accrual.

No. 25803 (New)
Support scientist positions at the Radio Observatory of ASTRON (Dwingeloo, the Netherlands)
ASTRON
Oude Hoogeveensedijk 4
The Netherlands
Tel: +31 521 595 100
FAX: +31 521 595 101
URL1: www.astron.nl
Email Submission Address: personnel@astron.nl
Email Inquiries: polatidis@astron.nl

Attention: Ms. Diana Verweij, Head of Human Resources

Support Scientist positions at the Radio Observatory of ASTRON (Dwingeloo, NL) Deadline: October 15, 2009

The Radio Observatory division of ASTRON (the Netherlands Institute for Radio Astronomy) invites applications for Support Scientist positions in the Science Support Group that will be available in 2010.

These positions offer exciting opportunities for front-line research in radio astronomy, as well as for in-depth involvement in exploiting highly innovative new observing facilities, realizing their full potential along with the first users. ASTRON is building the Low Frequency Array (LOFAR), a cutting-edge, low-frequency, multi-field aperture array telescope that is using transformational technologies and novel software approaches. LOFAR has very recently started producing unique data in the relatively unexplored spectral window below 200 MHz and will be completed in 2010. ASTRON also operates the Westerbork Synthesis Radio Telescope (WSRT), an array of fourteen 25m radio telescopes with state-of-the-art instrumentation. APERTIF (APERture Tile in Focus), a next generation observing system using focal plane array technology, is being developed for the WSRT in order to significantly expand its field of view, enabling new types of astronomical research. The WSRT also participates in the European and Global VLBI Networks.

Appointees will be expected to spend 50% of their time on astronomical research and 50% on support work. Depending on technical background and interests, their support responsibilities may include: • Assistance with the development of new observing modes, software or hardware. • Astronomical commissioning and testing of new equipment and capabilities. • Advising and assisting users to design, prepare, run, process and analyse observations. • Monitoring of system performance. • Overseeing the planning of astronomical projects and the telescope calendar.

Their research can be on any astrophysical topic, although some component involving the use of LOFAR and/or the WSRT and/or allowing possibilities to collaborate with other ASTRON research staff would be preferred. Astronomers at ASTRON are active in many frontline research areas: galaxy structure and evolution, the ISM and IGM, pulsars and compact objects, the transient radio sky, AGN evolution and studies of the magnetic universe, large radio continuum

and HI surveys, deep fields, and gravitational lensing. Other front-line research facilities available to Dutch astronomers include the ESO-VLT(I), ALMA, JCMT and the ING telescopes. Access to excellent computational facilities and travel support is available.

Depending on experience and skills, these appointments are usually offered for two years in the first instance, with an extension for a third year based on good performance, and the possibility for longer extension in exceptional cases. The positions require a PhD in astronomy, astrophysics or other related discipline. Affinity with instrumentation or software is also valued. A good command of the English language (writing and speaking) is essential.

Letters of application should be sent to personnel@astron.nl. The search will continue until the positions are filled; applications arriving before the deadline of 15 October 2009 will be assured of full consideration. Applications should include a CV, scientific interests and three letters of reference.

Successful candidates will be in the formal employment of the Netherlands Organisation for Scientific Research (NWO), at a salary scale commensurate with age and experience. Generous relocation expenses, as well as an excellent package of benefits and assistance with finding accommodation will be provided (see also www.astron.nl/about-astron/careers/careers). Applicants of any nationality are eligible to apply. Your work place is the ASTRON headquarters, located in Dwingeloo (the Netherlands). For enquiries please contact: Dr. Antonis Polatidis (polatidis@astron.nl), head of the Science Support Group of the Radio Observatory.

No benefits information has been provided by the employer.

No. 25805 (New)
Infrared Astronomer, Instrumentation
INSTITUTE FOR ASTRONOMY, ETH ZURICH
Wolfgang-Pauli-Strasse 27, HIT J 13.2
Star and Planet Formation Research Group
Switzerland
Tel: +41 (0)44 632 38 13
FAX: +41 (0)44 633 12 38
URL1: http://www.exp-astro.phys.ethz.ch/meyer/ ***(Star and Planet Formation Research Group)***
URL2: http://www.astro.phys.ethz.ch/ ***(Institute for Astronomy)***
URL3: http://www.ethz.ch/ ***(ETH Zurich)***
Email Submission Address: chiesinm@phys.ethz.ch
Email Inquiries: mmeyer@phys.ethz.ch

Attention: Mrs. Marianne Chiesi

The Institute for Astronomy at the Swiss Federal Institute of Technology in Zurich (ETH Zurich) is establishing a new infrared instrumentation laboratory with a scientific focus on star and planet formation research. Current projects include development of high contrast imaging systems and integral field spectrographs from 1-5 microns for existing large telescopes, as well as the next generation ELTs.

International applications are invited for positions ranging from Postdoctoral Fellow to Senior Research Scientist capable of directing the lab. Salary will be commensurate with experience (CHF 80'000-120'000) with junior appointments for a minimum of two years, and up to six+ years for senior candidates. Successful applicants will have the opportunity to work with students and access to the resources of the Star and Planet Formation Research Group led by Prof. Michael R. Meyer. Switzerland is a member of ESO and ESA, and successful applicants will have full access to their facilities, as well as data from ongoing programs utilizing the Spitzer Space Telescope, HST, the VLT, and other telescopes.

Applications should consist of a CV, past research and instrumentation experience, and proposed future activities (combined length not to exceed 12 pages). A separate publication list should be attached. These materials (as a single pdf file) as well as three letters of reference (directly from the referees) should be sent via email. Review of applications will begin immediately and continue until December 31, 2009 or the position is filled.

The ETH will provide benefits for maternity leave, retirement, accident insurance, and relocation costs. Weblink: http://www.pa.ethz.ch/

No. 25824 (New)
Program Manager
RESEARCH SCHOOL OF ASTRONOMY AND ASTROPHYSICS, AUSTRALIAN NATIONAL UNIVERSITY
Mount Stromlo Observatory
Cotter Road
Weston, ACT 2611
Australia
Tel: +61 2 6125 0292
FAX: +61 2 6125 0233
URL1: http://jobs.anu.edu.au ***(Online application (preferred))***
Email Submission Address: michelle.mcwilliam@anu.edu.au
Email Inquiries: Director.RSAA@anu.edu.au

Attention: Michelle McWilliam, Human Resources Officer

The ANU Research School of Astronomy and Astrophysics at Mount Stromlo is seeking a uniquely qualified individual to lead its technical and engineering participation in the proposed international, billion-dollar Giant Magellan Telescope project. The Program Manager will provide leadership for the development and delivery of advanced instrumentation in national and international contexts. The successful candidate will have: * a postgraduate qualification in a relevant science or engineering discipline; * extensive knowledge of and experience with systems level technology management across optical, mechanical, electronic and information technologies; * leadership experience in the management of international, multi-million dollar technical projects; * experience in the procurement of resources for scientific, technical and engineering projects, including knowedge of international conventions and compliance regimes governing the import and export of scientific and technical materials, information and data. This is a proposed position for a fixed term period of five years. Full details will be available at http://info.anu.edu.au/hr/Jobs

An attractive remuneration package will be negotiated.

No. 25828 (New)
Instrument Scientist
ASTROPHYSIKALISCHES INSTITUT POTSDAM (AIP) - INNOFSPEC
An der Sternwarte 16
Potsdam, Brandenburg 14482
Germany
Tel: +49-331-7499-382
FAX: +49-331-7499-436

URL1: http://www.aip.de/news/jobs/ ***(local job advert)***
URL2: http://www.innofspec-potsdam.de ***(innovation center webpage)***
URL3: http://www.aip.de ***(AIP webpage)***
Email Submission Address: rhaynes@innofspec-potsdam.de
Email Inquiries: mmroth@aip.de

Attention: Roger Haynes, Dr

The Astrophysikalisches Institut Potsdam (AIP) is offering a scientist position for the innoFSPEC innovation center. The successful applicant will participate in fundamental research and instrumentation development in the area of multi-channel spectroscopy, specifically fibre-optical integral field and multi-object spectroscopy primarily for astronomy. As the innovation centre instrument scientist, he/she will develop enabling technologies and instrument concepts.

Applicants must hold a PhD in physics, astronomy, optics, photonics, or related scientific disciplines, and must have an outstanding record of achievement in research and development of international stature. innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the southwestern border of Berlin. About 100 scientists work on a variety of astrophysical topics. It has a strong record in the development of instrumentation for 3D spectroscopy (e.g. PMAS, MUSE, VIRUS), with access to ESO, the LBT, and other observatories. Its mission also includes major contributions to ELT instrumentation.

The initial appointment is for three years with a possible extension to five years, dependent on external funding. The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. It values diversity.

To apply, please send a curriculum vitae including statements on education, skills, and experience to the given address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin October 31th, 2009 and continue until the position is filled.

Employer contributions to medical and dental insurance, maternity leave, and retirement benefits.

No. 25829 (New)
Photonic Scientist
ASTROPHYSIKALISCHES INSTITUT POTSDAM (AIP) - INNOFSPEC
An der Sternwarte 16
Potsdam, Brandenburg 14482
Germany
Tel: +49-331-7499-382
FAX: +49-331-7499-436
URL1: http://www.aip.de/news/jobs/ ***(local job advert)***
URL2: http://www.innofspec-potsdam.de ***(innovation center webpage)***
URL3: http://www.aip.de ***(AIP webpage)***
Email Submission Address: rhaynes@innofspec-potsdam.de
Email Inquiries: mmroth@aip.de

Attention: Roger Haynes, Dr

The Astrophysikalisches Institut Potsdam (AIP) is offering a scientist position for the innoFSPEC innovation center. The successful applicant will participate in fundamental research and instrumentation development in the area of multi-channel spectroscopy, specifically fibre-optical integral field and multi-object spectroscopy primarily for astronomy. As the innovation centre photonic scientist, he/she will research and develop photonic technologies and instrument concepts for astronomy and broader applications.

Applicants must hold a PhD in physics, photonics, optics, astronomy, or related scientific disciplines, and must have an outstanding record of achievement with research and development of photonic technologies in the international arena.

innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the southwestern border of Berlin. About 100 scientists work on a variety of astrophysical topics. It has a strong record in the development of instrumentation for 3D spectroscopy (e.g. PMAS, MUSE, VIRUS), with access to ESO, the LBT, and other observatories. Its mission also includes major contributions to ELT instrumentation.

The initial appointment is for three years with a possible extension to five years, dependent on external funding. The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. It values diversity.

To apply, please send a curriculum vitae including statements on education, skills, and experience to the given address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin October 31th, 2009 and continue until the position is filled.

Employer contributions to medical and dental insurance, maternity leave, and retirement benefits.

No. 25830 (New)
Experimental Scientist
ASTROPHYSIKALISCHES INSTITUT POTSDAM (AIP) - INNOFSPEC
An der Sternwarte 16
Potsdam, Brandenburg 14482
Germany
Tel: +49-331-7499-382
FAX: +49-331-7499-436
URL1: http://www.aip.de/news/jobs/ ***(local job advert)***
URL2: http://www.innofspec-potsdam.de ***(innovation center webpage)***
URL3: http://www.aip.de ***(AIP webpage)***
Email Submission Address: rhaynes@innofspec-potsdam.de
Email Inquiries: mmroth@aip.de

Attention: Roger Haynes, Dr

The Astrophysikalisches Institut Potsdam (AIP) is offering a scientist position for the innoFSPEC innovation center. The successful applicant will participate in fundamental research and instrumentation development in the area of multi-channel spectroscopy, specifically fibre-optical integral field and multi-object spectroscopy primarily for astronomy. As the innovation centre experimental scientist, he/she will investigate and develop enabling technologies.

Applicants must hold a PhD in physics, astronomy, optics, photonics, or related scientific disciplines, and must have an outstanding record of achievement in research and development programs of international stature.

innoFSPEC Potsdam is an interdisciplinary innovation centre, operated by AIP and the University of Potsdam, with its headquarter on the campus of AIP. The AIP is located in the beautiful area of Potsdam-Babelsberg, at the southwestern border of Berlin. About 100 scientists work on a variety of astrophysical topics. It has a strong record in the development of instrumentation for 3D spectroscopy (e.g. PMAS, MUSE, VIRUS), with access to ESO, the LBT, and other observatories. Its mission also includes major contributions to ELT instrumentation.

The initial appointment is for three years with a possible extension to five years, dependent on external funding. The salary is based on the German public service scale (TV-L). The AIP is an equal opportunity employer and as such, considers individuals for employment to their skills, abilities, and experience. It values diversity. To apply, please send a curriculum vitae including statements on education, skills, and experience to the given address. Applicants should arrange for two to three letters of recommendation to be sent to the same address. Review of applications will begin October 31th, 2009 and continue until the position is filled.

Employer contributions to medical and dental insurance, maternity leave, and retirement benefits.

No. 25734
IT SPECIALIST (DATA SPECIALIST)
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street MS 17
Cambridge, MA 02138
USA
Tel:
URL1: http://www.cfa.harvard.edu/hr/postings/29-36.html *(For further information and requirements, view the complete Job vacancy Announcement)*
Email Submission Address: saoresumes@cfa.harvard.edu

Attention: Recruiter #461, Job #29-36

IT SPECIALIST (DATA SPECIALIST)

The IT Specialist (Data Specialist) in this position participates in operating the Advanced CCD Imaging Spectrometer (ACIS) instrument on the Chandra X-ray Observatory, the second of NASA's three Great Observatories. The employee uses a variety of analytical techniques and software to verify the proper configuration of the ACIS instrument, monitor the health and safety of the instrument and the spacecraft, and analyze data to assess the instrument's scientific performance. The employee develops programs and modifies software to accomplish these tasks. Applicants must be U.S. citizens or permanent residents.

For further information and requirements, view the complete Job vacancy Announcement at http://www.cfa.harvard.edu/hr/postings/29-36.html

Qualified applicants should send their resume to: Recruiter #461, Job #29-36, Smithsonian Astrophysical Observatory, 60 Garden Street MS 17, Cambridge, MA 02138 or via email to: saoresumes@cfa.harvard.edu . Please note that this email address is for application materials only.

Applicants who have experience in a research environment are encouraged to include in their resumes a brief description of their research projects and of their use of software and analysis in the work.

The Smithsonian Astrophysical Observatory is an Equal Opportunity Employer, committed to diversity in our workplace.

Competitive

No. 25744
Data Process Developer
GEMINI OBSERVATORY
Tel:
URL1: www.gemini.edu

Attention: gemini-jobs@gemini.edu

Gemini Observatory has an immediate opening for a Data Process Developer to join our international team operating two of the world's premier ground-based telescopes in Hawaii and Chile. We are looking for a talented individual to join our multidisciplinary team at Gemini North in Hilo, Hawaii. The Data Process Developer is a part of an international team of six people based in Hawaii and Chile.

The Data Process Developer will develop and test Gemini data reduction software for Gemini's suite of cutting-edge instruments. He or she will contribute to the design, development, and deployment of the data processing node of the Dataflow Project. The current focus of the Dataflow Project is the creation of a reliable and powerful quality assurance and science quality data processing pipeline. The Data Process Developer will also help maintain the current IRAF, PyRAF, and Python data reduction software. Additional responsibilities will include providing support to users of the Gemini data reduction software as well as preparing public and internal releases of the software. The Gemini data reduction software is a critical component of the daily operations, and it is a tool that a large fraction of the Gemini user community relies on to prepare their data for science analysis.

Bachelor's degree in Astronomy, Physics, Computer Science or related field is required; a master's degree is preferred. Must be familiar with astronomical data and have experience working with UNIX/Linux, Programming experience in Python or C/C++ is essential. Must have experience programming for IRAF or PyRAF. Knowledge of astronomical data reduction techniques is preferred.

Gemini North head quarters are located in Hilo, Hawaii, a town with a very diverse population of about 43,000 people, a tropical climate, and a substantial international astronomical community supporting the observatories on Mauna Kea.

Send resume, cover letter and contact details of three references from whom letters of reference may be obtained. The position will remain open until filled. Please specify the AAS Job Register number on your application. AA/EOE.

No benefits information has been provided by the employer.

Modified: June 25, 2007 12:16 pm