

Job Register - The Key To Astronomy Employment

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 institutions 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@aaas.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 the [Council 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@aaas.org.

Recent Job Postings

Notes

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

No. 24871 (New)
FIXED TERM FACULTY POSITION - INSTRUCTIONAL
PENN STATE UNIVERSITY
Dept. of Astronomy & Astrophysics
525 Davey Lab
University Park, PA 16802
USA
Tel: 814 865 0418
FAX: 814 863 2842
URL: <http://www.astro.psu.edu>
Email Submission Address: eckley@astro.psu.edu
Email Inquiries: eckley@astro.psu.edu

Attention: Erin Eckley, Staff Assistant

FIXED TERM FACULTY POSITION The Pennsylvania State University Dept. of Astronomy & Astrophysics 525 Davey Lab University Park, PA 16802 Attn: Faculty Search Committee

The Department of Astronomy and Astrophysics at The Pennsylvania State University invites applications for a fixed term instructional faculty position beginning in January 2009 and extending at least through June 2010. Duties will include responsibility for sections of introductory general education courses delivered in both traditional lecture and on-line formats. Applicants should have a Ph.D. in Astronomy or Physics. Some experience in teaching introductory level courses is highly desirable. We expect the appointment will be made at the Lecturer level. The selected candidate will be encouraged to participate in the vibrant research atmosphere in the department.

The Department currently has 16 tenure track faculty and over 20 postdoctoral associates and research faculty. The Department is consistently ranked among the top in the country in introductory student enrollments by the AIP. The Department is the main University partner in the multi-wavelength SWIFT gamma-ray burst afterglow satellite, whose Mission Operations Center is at Penn State. It is also the PI institution for the ACIS X-ray CCD camera on Chandra, and is a major partner (25% of the observing time) in the Hobby-Eberly Telescope at the McDonald Observatory. Current information teaching, research and other activities can be found at <http://www.astro.psu.edu>.

Applications should include a CV, statement of teaching experience and interest as well as research interests, list of publications, and names of three professional references, mailed to: Ms. Erin Eckley, (eckley@astro.psu.edu) 525 Davey Lab, Pennsylvania State University University Park, PA 16803 Fax: 814-863-2842 phone: 814-865-0418

Review of applications will begin in October, and the search will continue until the position is filled. We encourage applications from individuals of diverse backgrounds. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No. 24907 (New)
Astronomer
GEMINI OBSERVATORY
Tel:

URL1: www.gemini.edu

Attention: gemni-jobs@gemni.edu

Gemini has an immediate opening for a tenure-track astronomer position at Gemini South in La Serena, Chile and Gemini North in Hilo, Hawaii. This position requires a solid commitment to Gemini's mission to teach humanity about the Universe and requires strong scientific leadership abilities.

The tenure-track astronomer is expected to maintain a strong scientific program with excellent productivity. The tenure-track astronomer is additionally expected to provide scientific leadership to Gemini South science staff. Forty percent (40%) of the tenure-track astronomer's time is available for astronomical research. The position includes a personal research budget as well as access to staff time on both Gemini telescopes through a peer-reviewed staff TAC.

Gemini science staff utilize diverse, state-of-the-art astronomical research and instrumentation. The exact support duties of the staff Astronomer will vary depending on the individual's skills and interests, and the Observatory's needs. All staff are expected to become proficient in night-time observing using any of the Observatory's current instrumentation and to support investigators in the community. Additional support projects may include new instrument commissioning, or other Observatory development projects aimed at improving efficiency, data quality or user support.

Gemini South is entering an exciting period with new forefront capabilities being implemented. New instrumentation coming online in the near future at Gemini South include an adaptive optics fed near-infrared coronagraphic imager (NICI), a near-IR multi-object spectrograph (Flamingos-2) and a facility laser system for multi-conjugate adaptive optics (MCAO).

The appointment is a three year renewable term, with application for tenure generally expected during the second three year term.

Requirements: Ph.D. in astronomy, physics or related discipline, and related work experience. Substantial ground-based observing and/or instrumentation experience is highly desirable, particularly using modern facilities. Experience/knowledge in one or more of the following areas is a plus: infrared imaging, spectroscopy or multi-object spectroscopy; adaptive optics; and high spatial resolution imaging and coronagraphy. Research productivity will be considered, as judged by publication in astronomical peer-review journals.

Must be safety conscious; possess or be able to obtain a valid passport; willing and able to travel internationally; have a valid driver's license with good driving record, and be able to drive 4WD vehicle. Applicants must be willing to work nights at the summit of Cerro Pachon, 2900m.

The Gemini Observatory is a partnership of seven nations: the USA, UK, Canada, Australia, Argentina, Brazil and Chile, operating state-of-the-art, ground-based 8-m optical/infrared telescopes in Hawaii and Chile.

Send resume, cover letter relating your experience and education to the needs of the position and listing AAS Job Register number, statement of research, and statement of Observatory development and support activity interest to gemini-jobs@gemini.edu. Additionally, arrange to have letters from three professional references sent directly to gemini-jobs@gemini.edu. Positions are available now and applications will be considered as they are received; applications received by November 30, 2008 will receive full consideration.

No. 24908 (New)

Science Fellows

GEMINI OBSERVATORY

Tel:

FAX: 8775712008

URL1: www.gemini.edu

Email Inquiries: gemini-jobs@gemini.edu

Attention: gemini-jobs@gemini.edu

Gemini has two openings for Gemini Science Fellows at Gemini North in Hilo, Hawaii. Gemini Science Fellows 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 at Gemini are actively involved in personal research projects. Forty percent (40%) of the Fellow's time is available for independent astronomical research, supported by a personal research budget. In addition, a fraction of the time available on both Gemini telescopes is reserved for successful peer-reviewed staff proposals.

Gemini North Science Fellows can expect to spend approximately 15 to 20 nights per semester executing observations on the summit of Mauna Kea utilizing any of the three or more active instruments. Fellows 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. In addition, Science Fellows have the opportunity to become intimately involved in instrumentation projects, data analysis tools, or other observatory development projects, depending on their interests. Applications are especially encouraged from individuals with interest and expertise in integral field spectroscopy in the optical as well as the near-IR.

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. The majority of the Fellow's time is spent 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.

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/knowledge in one or more of the following areas is a plus: integral field spectroscopy in the optical and near-IR; infrared imaging and spectroscopy; optical multi-object 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 application address below. Please include the AAS Job Register number in your cover letter. Applications will be considered as they are received and all applications received by November 15, 2008 will receive full consideration. Starting dates are negotiable but are expected to be between April 2009 and November 2009.

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

No. 24915 (New)

Faculty Position in Theoretical Astrophysics

UNIVERSIDAD DE CHILE

Camino El Observatorio 1515

Las Condes, Santiago Box 36-D

Chile
Tel: 56-2 977 1091
FAX: 56-2 229 3973
URL1: <http://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 background on theoretical astrophysics and numerical simulations.

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, Departamento de Astronomia, Universidad de Chile, Casilla 36-D, Santiago, Chile. The deadline for applications is 30 October 2008. The selected candidate is expected to start his work no later than March 2009.

No. 24776
Postdoctoral Fellow in AGN Feedback in Galaxy Formation
AUSTRALIAN NATIONAL UNIVERSITY
Tel:
URL1: <http://info.anu.edu.au/hr/jobs/> (Selection Criteria)
URL2: http://info.anu.edu.au/hr/How_to_Apply/index.asp (Information for Applicants)
URL3: <http://info.anu.edu.au/Policies/DHR/Forms/HR86.asp> (Job Application Cover Sheet)
Email Inquiries: Geoff.Bicknell@anu.edu.au

Attention: jobs@anu.edu.au

Applications are invited for a 2 year fixed-term Level A, research only position in the Research School of Astronomy and Astrophysics. The successful appointee will work with Prof. Geoffrey Bicknell and Dr. Ralph Sutherland on analytical and computational work relating to the interactions of jets with inhomogeneous interstellar media with a view to understanding the physics of AGN feedback in galaxy formation. The appointee will also work with Professor Michael Dopita on the interpretation of observations made using modern 3-dimensional integral field spectrometers (NIFS and WiFeS) which have been developed at the RSAA. The successful candidate will have demonstrated clear research achievement in Theoretical Astrophysics and/or Computational Fluid Dynamics. The ability to successfully undertake large scale scientific computation and the related analysis is an essential requirement of this position. The appointee will have access to the computational environment of the ANU Supercomputing Facility subject to successful time application proposals.

No. 24792
Visiting Scientist
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
URL1: <http://www.stsci.edu/institute/employment> (Employment Link)
Email Inquiries: careers@stsci.edu

Attention: See Job Description

The Space Telescope Science Institute (STScI) is seeking experienced astronomers to fill one or more Visiting Scientist positions. The upcoming servicing mission (SM4), which will feature the installation of two new instruments (WFC3 and COS) plus the repair of two more (ACS and STIS), will leave the Hubble Space Telescope in its most powerful state yet. Join us to participate in the first year of these exciting new capabilities. These are positions are limited to one year, for individuals on leave from their home institution. We aim to fill these positions as soon as possible in order to maximize overlap with the first year of science operations. Visiting scientists will contribute to the science operations, calibration, and user support for the Hubble Space Telescope, or contribute in other ways to STScI's service to the astronomical community. Visiting scientists have 20 to 50% of their time available for self-directed research. Located on the campus of the Johns Hopkins University, STScI provides a stimulating scientific environment. STScI supports postdoctoral, graduate student and visitor programs, workshops and meetings, and has excellent computer, technical and library infrastructure.

Candidates for these positions must have a Ph.D. or equivalent degree in astronomy, physics, or planetary science, and have considerable postdoctoral research experience with an established record of independent research. STScI is committed to equal opportunity: women and minorities are strongly urged to apply.

Applicants are requested to complete an on-line application at: <http://www.stsci.edu/institute/employment> and attach the following materials in the **Resume Upload** section:

- a curriculum vitae
- a list of publications
- a brief essay describing how you feel you can contribute to STScI's mission support and service to the astronomical community (including in particular a description of any technical expertise you feel is relevant.)
- a statement of your research aims during the term as visiting scientist.

In addition, please have reference letters from three individuals familiar with your work **and** a statement from your employer agreeing to your proposed leave of absence sent to careers@stsci.edu. Completed applications received by September 5, 2008 are assured of full consideration. STScI is an Equal Opportunity/Affirmative Action employer. EOE/AA/W/M/H/V

Questions may be directed to careers@stsci.edu.

No. 24761 (New)
Full Professor of Stellar Astrophysics
DEPARTMENT OF ASTRONOMY, UNIVERSITY OF VIENNA, AUSTRIA
Althanstraße 14
Austria
Tel:
URL1: [http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews\[tt_news\]=6261&tx_ttnews\[backPid\]=11915&cHash=f378196d05](http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews[tt_news]=6261&tx_ttnews[backPid]=11915&cHash=f378196d05)
(complete job announcement)
Email Submission Address: Ingrid.Mayrhofer@univie.ac.at
Email Inquiries: Ingrid.Mayrhofer@univie.ac.at

Attention: Ingrid Mayrhofer

The University of Vienna aims at strengthening its position as a major research-oriented university. Key elements of this strategy include the provision of an attractive range of research-based study programmes, support for furthering the work of junior academic colleagues, and high-calibre professorial appointments.

The Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna announces the position of a

Full Professor of Stellar Astrophysics

(full time permanent position under private law). The University of Vienna intends to increase the number of women on its faculty, particularly in high-level positions, and therefore specifically invites applications by women. Among equally qualified applicants women will receive preferential consideration.

With the recent entry of Austria into the European Southern Observatory (ESO), the University of Vienna is inviting applications for a full professorship in the fields of astrophysics of stars and planetary systems.

The formation, structure and evolution of stars and their planetary systems, as well as their interaction with the interstellar matter, are key chapters in the evolution of the universe. We seek candidates with an outstanding and versatile record of achievement and promise within broad areas of this field. The incumbent is expected to lead a vigorous research programme making effective use of the state-of-the art observational tools available through ESO, ESA, and the University, emphasizing the physical understanding of the underlying processes. Excellence and dedication in teaching are essential as well.

For further details see the related URL.

No. 24762 (New)

Full Professor of Galaxy Formation and the Early Universe
DEPARTMENT OF ASTRONOMY, UNIVERSITY OF VIENNA, AUSTRIA

Althanstraße 14

Vienna, Vienna A- 1090

Austria

Tel:

URL1: [http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews\[tt_news\]=6260&tx_ttnews\[backPid\]=11915&cHash=b8d3e16811](http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews[tt_news]=6260&tx_ttnews[backPid]=11915&cHash=b8d3e16811)

(complete job announcement)

Email Submission Address: Ingrid.Mayrhofer@univie.ac.at

Email Inquiries: Ingrid.Mayrhofer@univie.ac.at

Attention: Ingrid Mayrhofer

The University of Vienna aims at strengthening its position as a major research-oriented university. Key elements of this strategy include the provision of an attractive range of research-based study programmes, support for furthering the work of junior academic colleagues, and high-calibre professorial appointments.

The Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna announces the position of a

Full Professor of Galaxy Formation and the Early Universe

(full time permanent position under private law). The University of Vienna intends to increase the number of women on its faculty, particularly in high-level positions, and therefore specifically invites applications by women. Among equally qualified applicants women will receive preferential consideration.

With the recent entry of Austria into the European Southern Observatory (ESO), the University of Vienna is inviting applications for a full professorship in the fields of galaxy formation and the early Universe.

The first stars and the first galaxies formed in a Universe dominated by dark matter and dark energy, seeding the primordial gas with heavy elements and setting the stage for the processes of galaxy evolution we observe today. We seek candidates with an outstanding record of achievement and promise within the broad areas of this field. The incumbent is expected to lead a vigorous research programme making effective use of the state-of-the art observational tools available through ESO and ESA, emphasising the physical understanding of the underlying processes. Excellence and innovation in teaching are essential as well.

For further details see the related URL.

No. 24834 (New)

Cosmology

UNIVERSITY OF PITTSBURGH

3941 O'Hara Street

100 Allen Hall

Pittsburgh, PA 15260

USA

Tel: 412-624-6381

FAX: 412-624-9163

URL1: <http://www.phyast.pitt.edu>

Email Submission Address: pasearch+cosmo@pitt.edu

Attention: Cosmo Search Committee, Department of Physics and Astronomy

Faculty Position in Cosmology University of Pittsburgh Department of Physics and Astronomy

The Department of Physics and Astronomy at the University of Pittsburgh (<http://www.phyast.pitt.edu/>) invites applications for a new faculty member in astrophysics/cosmology to join our tenured or tenure-stream faculty, with the level of individual appointment determined by the qualifications of the applicant. There is also a possibility that the appointment will be a chaired Professorship. The appointment, which is subject to budgetary approval, would begin in the Fall Term 2009, or thereafter.

We are particularly interested in candidates with strong physics backgrounds who will complement current research strengths in theoretical cosmology and extragalactic astronomy, and will consider candidates with any area of specialization within cosmology, including those areas of particle astrophysics which address the fundamental nature of dark matter and/or dark energy. The Department is a significant user of national and international research facilities, is a member of the Sloan Digital Sky Survey (SDSS) collaboration and the Large Synoptic Survey Telescope (LSST) collaboration. Some faculty participate in the Atacama Cosmology Telescope (ACT) project, Pan-STARRS, and SDSS-III. In addition to research accomplishments and future promise, candidates must show potential for a high degree of teaching effectiveness at both the graduate and undergraduate levels.

To ensure full consideration, complete applications should be received by October 15, 2008. However, applications will be accepted until the position is filled. Applicants should email PDF documents (preferably a single document) containing a cover letter, curriculum vitae, bibliography, statement of research interests, and brief teaching statement to pasearch+cosmo@pitt.edu. In addition, applicants should arrange to have at least three letters of reference sent to: Cosmo Search Committee, Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA 15260. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

No. 24838 (New)
Assistant Professor in Astronomy/Astrophysics
HOBART & WILLIAM SMITH COLLEGES
300 Pulteney St
Geneva, NY 14456
USA
Tel: 315 781-3623

Attention: Prof. Ted Allen, Chair, Search Committee

Hobart and William Smith Colleges invites applications for a new tenure track position in astronomy at the Assistant Professor level, commencing Fall 2009. The Physics Department is seeking to develop a new concentration in astronomy. We seek an individual who has a genuine interest in teaching and liberal arts education, and who will conduct an active research program that can involve our undergraduate students. Candidates in any subfields of astronomy and astrophysics will be considered. Candidates should have a Ph.D. or its equivalent, and evidence of ability to teach. Candidates will be expected to teach courses in astronomy as well as in the broader physics department curriculum. Candidates with postdoctoral research experience and college-level teaching experience are preferred.

APPLICATION INSTRUCTIONS:

Applications should include a curriculum vitae; a statement describing the research interests of the candidate, including projects that could engage undergraduate students; and a statement describing the candidate's approach to teaching. Candidates should also arrange to have three or more letters of reference sent on their behalf that will help us assess the candidate's teaching ability and research potential. Review of applications will begin on November 1, 2008 and will continue until the position is filled.

Applications should be sent to:

Prof. Ted Allen, Search Committee Chair, Department of Physics, Hobart and William Smith Colleges, 300 Pulteney Street, Geneva, NY 14456, EOE

Hobart and William Smith Colleges are committed to attracting and supporting a faculty of women and men that fully represent the racial, ethnic, and cultural diversity of the nation and actively seek applications from under-represented groups. The Colleges do not discriminate on the basis of race, color, religion, sex, marital status, national origin, age, disability, veteran's status, or sexual orientation or any other protected status.

Founded as Hobart College for men and William Smith College for women, Hobart and William Smith Colleges today are a highly selective residential liberal arts institution with a single administration, faculty and curriculum but separate dean's offices, student governments, athletic programs and traditions. The Colleges are located in a small diverse city in the Finger Lakes region of New York State. With an enrollment of approximately 2,000, the Colleges offer 62 different majors and minors from which students choose two areas of concentration, one of which must be an interdisciplinary program. Creative and extensive programs of international study and public service are also at the core of the Colleges' mission.

No. 24857 (New)
tenure-track Assistant Professor in Planetary Sciences
UC SANTA CRUZ
Earth and Planetary Sciences Department (EPS)
1156 High Street
Santa Cruz, CA 95064
USA
Tel:
URL1: <http://www.es.ucsc.edu/about/jobs/410-09.pdf> (EPS Planetary Sciences Recruitment #410-09)
URL2: <http://es.ucsc.edu/> (UCSC, Earth and Planetary Sciences, Home Page)
URL3: <http://www.ucsc.edu/oncampus/> (UC Santa Cruz, Home Page)
Email Submission Address: eps08@ucsc.edu
Email Inquiries: eps08@ucsc.edu

Attention: Assistant Professor Search Committee, c/o Judy Van Leuven, MSO

The Department of Earth and Planetary Sciences at the University of California, Santa Cruz, has an opening for a tenure-track Assistant Professor in Planetary Sciences. Application deadline is 1st November 2008; please refer to position #410-09 in all correspondence. For more information, please contact Judy Van Leuven (eps08@ucsc.edu) or refer to <http://www.es.ucsc.edu/about/jobs/410-09.pdf>. UCSC is an AA/EEO Employer.

No. 24859 (New)
Tenure Track Faculty Positions - Extrasolar planets (theory or observation), 2) cosmology (theory or observation) and 3) Space and/or ground based instrumentation.
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: eckley@astro.psu.edu
Email Inquiries: eckley@astro.psu.edu

Attention: Erin Eckley, Staff Assistant

The Department of Astronomy and Astrophysics at The Pennsylvania State University invites applications for three tenure-track faculty positions. We will focus our search on faculty with expertise in the following areas: 1) Extrasolar planets (theory or observation), 2) cosmology (theory or observation) and 3) Space and/or ground based instrumentation. The main criterion is the prospect of establishing a research program of the highest quality, either in observation, theory or instrumentation. We anticipate making Assistant Professor appointments in the above stated areas, but we are open to exceptional opportunities at more senior levels. Applicants should have a Ph.D. in Astronomy or Physics, an outstanding research record, the ability to lead and support a research program involving students and postdocs, and an ability to teach effectively at both the undergraduate and graduate levels.

The Department currently has 16 tenure track faculty, four joint appointments with Physics, several adjunct appointments. The Department is the main University partner in the multi-wavelength SWIFT gamma-ray burst afterglow satellite, whose Mission Operations Center is at Penn State. It is also the PI institution for the ACIS X-ray CCD camera on Chandra, is a major partner (25% of the observing time) in the Hobby-Eberly Telescope at the McDonald Observatory, and is a participant in the Large Synoptic Survey Telescope. Current information on research and other activities can be found at <http://www.astro.psu.edu>.

Applications should include a cover letter stating which of the above three areas their application is for, a CV, statement of planned research, list of publications, and (for junior level) three reference letters, or for senior applications, the names of three references, mailed to: Ms. Erin Eckley, (eckley@astro.psu.edu) 525 Davey Lab, Pennsylvania State University University Park, PA 16803 Fax: 814-863-2842 phone: 814-865-0418

Review of applications will begin in October, and the search will continue until positions are filled. Women and minorities are encouraged to apply. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No. 24864 (New)
Faculty Ad for Dark Cosmology
CARNEGIE MELLON UNIVERSITY
Dept. of Physics
5000 Forbes Avenue
Pittsburgh, PA 15213
USA
Tel: 412-268-8367
FAX: 412-681-0648
URL1: www.cmu.edu/cosmology (Website describing McWilliams Center for Cosmology)
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 establishment of the Bruce and Astrid McWilliams Center for Cosmology. The new 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. Within the McWilliams Center, new computing clusters have been installed and upgraded. In collaboration with the Graphics Group in Computer Science, a ~700 core cluster for simulations with very fast interconnects will start operations this fall. Carnegie Mellon has joined the LSST collaboration and expects to join other cosmological surveys. Physical space for the McWilliams Center is being renovated. A search for McWilliams Postdoctoral Fellows is being conducted in parallel with the faculty search. The Center's website at www.cmu.edu/cosmology provides 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 these rapidly developing areas related to 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

Dark Cosmology Search Committee, Department of Physics, Carnegie Mellon University, Pittsburgh, PA 15213.

For full consideration, all materials should be received by October 15, 2008.

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

No. 24879 (New)
Assistant Professor, Dept of Astrophysical Sciences
PRINCETON UNIVERSITY
Department of Astrophysical Sciences
Peyton Hall
Princeton, NJ 08544
USA
Tel: 609-258-3801
FAX: 609-258-1020
URL1: <http://www.astro.princeton.edu> (Department website)
Email Inquiries: lipman@astro.princeton.edu

Attention: Professor D. Spergel, Chair

Princeton University is searching for a tenure-track Assistant Professor in the Department of Astrophysical Sciences, to begin in September 2009. The primary selection criteria will be research achievement, promise and breadth in astrophysics. While the initial focus of this search is in observational and/or instrumental astrophysics, outstanding candidates in all fields of astrophysics are encouraged to apply for the position. The ability to teach a broad range of courses and to supervise student research programs are also important criteria.

Information on departmental resources and research programs can be found at <http://www.astro.princeton.edu>, or by directly contacting departmental faculty.

Candidates should send their curriculum vitae, bibliography, and a three-page description of past research and future plans to Professor D. Spergel, Chair, Department of Astrophysical Sciences, Princeton University, Peyton Hall, Princeton, NJ 08544, USA. They should also arrange for at least three referees to send letters of recommendation to the same address.

Applications will be accepted until the position is filled. Review of applications will start on December 1, 2008.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations. For information about applying to Princeton and how to self-identify, please link to <http://web.princeton.edu/sites/dof/ApplicantsInfo.htm>.

No. 24880 (New)
Resident Astronomer
INSTITUTO DE ASTRONOMÍA, UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO
P.O. Box 439027
San Diego, California 92143
USA
Tel: +52 6461744580 ext.301

FAX: +52 646 1744777
URL1: <http://www.astrosen.unam.mx>
URL2: <http://www.astrosen.unam.mx>
URL3: <http://haro.astrssp.unam.mx>
Email Submission Address: jefatura@astrosen.unam.mx
Email Inquiries: jefatura@astrosen.unam.mx

Attention: Dr. David Hiriart, Head of the Observatorio Astronómico Nacional

The Instituto de Astronomía at the National Autonomous University of Mexico (IA-UNAM) offers a resident astronomer position at the National Astronomical Observatory in Ensenada/San Pedro Martir, Baja California, Mexico. This position is for a period of one year, subject to adequate performance, with the possibility of extension by up to several years beyond that. Resident astronomers spend one third of their time on observatory duties and the rest on their personal research. Observatory duties include support of observing runs there, familiarizing visiting astronomers with the observing infrastructure, providing liaison between astronomers and the on-site technical staff, as well as testing, calibrating, and documenting instruments and observing modes. Resident astronomers are encouraged to suggest and undertake programmes to improve the observing facilities. The short-listed candidates will be invited for personal interviews in Ensenada, Baja California and to visit the observatory in order to make a final selection.

The current observing infrastructure at the National Astronomical Observatory in San Pedro Martir consists of three telescopes (2.1m, 1.5m, 84cm) equipped with four optical spectrographs offering resolutions from 300 to 100000, an optical scanning Fabry-Perot interferometer, near- and mid-infrared cameras and spectrographs (imaging 1-20 microns; spectroscopy 1-5 microns), a pair of filter wheels allowing broad- and narrow-band optical imaging, and a pair of stellar photometers. Further information on the observatory site and observing facilities may be found at <http://haro.astrssp.unam.mx>. Mexico is a junior partner in the 10.4m Gran Telescope Canarias nearing completion in the Canary Islands. Resident astronomers will also have access to this facility when it becomes available.

Applicants should hold a PhD in astronomy or a closely related field, and have held a postdoctoral position for a minimum of two years. Previous observing experience and a knowledge of computer operating systems will be an asset. Bilingual candidates (Spanish and English) are especially encouraged to apply. There is, however, a long tradition of receiving English-speaking candidates who later learn Spanish at the many facilities available locally. Both recent graduates as well as more experienced observers will be considered. Good teamwork skills will be considered a valuable asset.

Salary and benefits are competitive with international standards.

To apply, interested candidates should send a letter of application, including a description of research interests and experience, curriculum vitae, and three letters of reference to David Hiriart at: jefatura@astrosen.unam.mx and to our mailing address at: P.O. Box 439027 San Diego, California 92143 USA. Reviews will start September 15, 2008 but we will continue to receive applications until the is filled.

No. 24887 (New)

Astrophysics Research Scientist
AUSTRALIA TELESCOPE NATIONAL FACILITY, CSIRO

Tel:
URL1: <https://recruitment.csiro.au/asp/index.asp> (More Information and To Apply)
URL2: www.atnf.csiro.au (ATNF website)
URL3: www.csiro.au (CSIRO website)
Email Inquiries: Robert.Braun@csiro.au

Attention: <https://recruitment.csiro.au/asp/index.asp>

The Australia Telescope National Facility (ATNF), a Division of CSIRO, and one of the world's leading radio astronomical facilities, seeks a highly skilled Research Scientist to engage in original and independent astrophysics research using ATNF and other world-class facilities. The ATNF operates the Australia Telescope Compact Array (ATCA), the Mopra 22-m telescope, the Parkes 64-m telescope, and the Long Baseline Array (LBA). It provides access to powerful broadband correlators supporting observations in the range of 1-100 GHz. Design efforts are now focused on the Australian Square Kilometre Array Pathfinder (ASKAP), a powerful new instrument for high dynamic range, wide-field radio astronomy that will be sited in Western Australia at the Australian SKA candidate site.

Astrophysics staff members also play a key role within the ATNF by interacting closely with the technical staff who are designing next generation instrumentation and with the operations staff when subsequently commissioning that new instrumentation.

Strong areas of current research for ATNF Astrophysics staff are in studies of (1) pulsars, (2) the interstellar medium and star formation, (3) nearby galaxies, (4) active galactic nuclei and radio galaxies.

The successful candidate is likely to have (1) about 5 years of research experience in radio astronomy, (2) an affinity for new instrumentation design and commissioning, (3) an outstanding publication record and (4) a demonstrated capability for innovative research.

This is an indefinite appointment. Applications close: 31 October 2008 For essential information and details on how to apply, please visit Job Reference 2008/916 at: www.csiro.au/careers

No. 24888 (New)

assistant/associate professor
UNIVERSITY OF HONG KONG

Pokfulam Road
Hong Kong, SAR 00000
Hong Kong

Tel:
FAX: 852-2540-6735
Email Submission Address: senrappt@hkucc.hku.hk
Email Inquiries: sunkwok@hku.hk

Attention: *Appointments Unit*

THE UNIVERSITY OF HONG KONG

Centenary Recruitment Plan

Founded in 1911, The University of Hong Kong is committed to the highest international standards of excellence in teaching and research. The University has a comprehensive range of study programmes and research disciplines, with 20,000 undergraduate and postgraduate students from 50 countries, and a complement of 1,200 academic members of staff.

As the University approaches its 100th anniversary, a major human resource expansion plan has been launched to provide 200 new academic positions. The purpose of this Centenary Recruitment Plan is to enhance our research competitiveness and to facilitate the introduction and delivery of a new four-year undergraduate curriculum from 2012.

Building on Hong Kong's international status and its mission to serve China, the University offers an intellectually-stimulating and culturally-rich academic environment, with attractive remuneration packages.

Tenure-Track Associate Professor/Assistant Professor in Observational Astronomy (Ref.: RF-2008/2009-84)

Applications are invited for appointment as Associate Professor/Assistant Professor in Observational Astronomy in the Department of Physics, from January 1, 2009 or as soon as possible thereafter. The post will initially be made on a three-year term. Appointment with tenure will be considered during the second three-year term.

The Department of Physics has strong groups in condensed matter physics, including nanoscience and nanotechnology, as well as in theoretical and observational astrophysics. Current astronomical research areas include stellar, planetary, and interstellar medium research, with relating astrobiology research in the Department of Earth Sciences and School of Biological Sciences. We seek an astronomer with observational experience in ground-based or space-based telescopes and who can initiate programs in international observational facilities.

The appointee should have a demonstrated record in research and a commitment to excellence in undergraduate and graduate teaching. Research start-up funds will be available. Information about the Department can be obtained at <http://www.physics.hku.hk/>.

Annual salaries will be in the following ranges (under review): Associate Professor : HK\$622,740 – 963,060 Assistant Professor : HK\$474,600 – 733,440 (approximately US\$1 = HK\$7.8)

/2.....

- 2 -

The appointment will attract a contract-end gratuity and University contribution to a retirement benefits scheme, totalling up to 15% of basic salary, as well as leave, and medical/dental benefits. Housing benefits will be provided as applicable. At current rates, salaries tax does not exceed 15% of gross income.

For enquiries of the existing research activities and the specific job requirements, please write to Professor Sun Kwok, Dean of Science (e-mail: sunkwok@hku.hk). Further particulars and application forms (152/708) can be obtained at <https://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Human Resource Section, Registry, The University of Hong Kong, Hong Kong (fax: (852) 2540 6735 or 2559 2058; e-mail: senrappt@hkucc.hku.hk). Closes October 31, 2008. Candidates who are not contacted within 4 months of the closing date may consider their applications unsuccessful.

The University is an equal opportunity employer and is committed to a No-Smoking Policy

No. 24893 (New)
Faculty of Science, Senior Lecturer/Lecturer, The Department of Astronomy
THE UNIVERSITY OF CAPE TOWN

Tel: +27 21 650 2220

URL1: [Departmental Website \(http://www.ast.uct.ac.za\)](http://www.ast.uct.ac.za)

Email Submission Address: Roslyn.Daniels@uct.ac.za

Attention: Mrs R. Daniels, Staff Recruitment & Selection

Faculty of Science

Senior Lecturer/Lecturer

The Department of Astronomy, a dynamic and rapidly growing research group with focus on observational astronomy is seeking a Lecturer/Senior Lecturer starting 1 January 2009.

Candidates are expected to hold a PhD in Astronomy or a related discipline and have a track record of research in observational astronomy. Preference will be given to applicants whose research interests complement or include those already established in the Department (specifically multi-wavelength extragalactic astronomy). Experience in theory or modelling would be advantageous. A strong publication record in refereed journals is highly desirable.

Responsibilities include the teaching of courses at both undergraduate and postgraduate levels, and the supervision of postgraduate students.

The appointee will be expected to develop a strong research programme, linked with the unique capabilities of SALT (in which South Africa has a 30% share), MeerKAT (an 80-dish South African Square Kilometre Array Pathfinder currently under construction) and the Square Kilometre Array.

The annual remuneration package, including benefits for 2008 is: • Senior Lecturer – R361 232 • Lecturer – R304 790.

Please send: • a letter of motivation • your full CV (no certificates) • a one-page CV summary • names, e-mail and telephone of three referees to: Mrs R. Daniels (Ref:1761-AJR), Staff Recruitment & Selection, University of Cape Town, Rondebosch, South Africa 7700, by 1 October 2008 • tel. +27 21 650 2220 • e-mail: Roslyn.Daniels@uct.ac.za • Departmental Website: <http://www.ast.uct.ac.za>

UCT is committed to the pursuit of excellence, diversity and redress. Our Employment Equity Policy is available at <http://hr.uct.ac.za/policies/ee.php>

No. 24895 (New)
Faculty Position in Theoretical Astrophysics - Northwestern University
NORTHWESTERN UNIVERSITY
Department of Physics and Astronomy

2145 Sheridan Road

Evanston, IL 60208

USA

Tel:

URL1: <http://www.physics.northwestern.edu/> (Physics & Astronomy Department)

URL2: <http://www.astro.northwestern.edu/> (Astronomy & Astrophysics Group)

Email Submission Address: astro-search@northwestern.edu

Email Inquiries: rasio@northwestern.edu

Attention: Pamela Horstmann

The Department of Physics and Astronomy at Northwestern University invites applications for a tenure-track faculty position in the area of theoretical/computational astrophysics at the Assistant Professor level. We seek outstanding individuals who will complement and expand the current research areas of the theoretical astrophysics group, including the formation and evolution of compact objects, dynamics of dense star clusters, high-energy astrophysics, relativistic astrophysics and gravitational wave sources, star and planet formation, and dynamics of extrasolar planetary systems. Applicants should have a strong record of achievement in astrophysics research and a commitment to excellence in undergraduate and graduate teaching and outreach. Interested applicants should send their curriculum vitae, a list of publications, a research statement, and should arrange for at least three reference letters to be

submitted electronically to Pamela Horstmann at astro-search@northwestern.edu, or by mail to Department of Physics and Astronomy, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208. Review of applications will start on November 1, 2008, but later applications will continue to be considered until the position is filled. Further information about the department can be found at <http://www.physics.northwestern.edu>. AA/EOE. Women and members of minority groups are encouraged to apply.

No. 24904 (New)

Junior Faculty Position in Astrophysics
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
77 Massachusetts Avenue, Building 37-626A
Cambridge, MA 02139
USA

USA

Tel:

URL1: <http://web.mit.edu/physics/fyi/facsearch-astro.html>

Attention: Professor Deepti Chakrabarty

The MIT Physics Department invites applications for a junior faculty position in astrophysics. Applications are sought from individuals working in any area of astrophysics including: optical/IR astronomy, radio astronomy, high-energy astrophysics, cosmology, gravitational, and theoretical astrophysics. Current astrophysics faculty are active in optical, radio, X-ray, and gravitational wave astronomy; in broad areas of theoretical astrophysics and cosmology; in the understanding of dark matter and dark energy; in studies of exoplanets and brown dwarfs; and in space plasma physics. MIT hosts the Kavli Institute for Astrophysics and Space Research, whose faculty and research staff contribute instrumentation for and conduct research using several facilities including the Chandra X-ray Observatory, the Rossi X-ray Timing Explorer, the Murchison Widefield Array, the Magellan telescopes in Chile, and LIGO.

Faculty members at MIT conduct research, teach undergraduate and graduate physics courses, and supervise graduate and undergraduate participation in research. Candidates must show promise in teaching as well as in research. Preference will be given to applicants at the assistant professor level. More senior appointments will be considered only in exceptional cases. Applicants should submit a curriculum vitae, a list of publications, and a brief description of research interests and goals by regular mail to: Professor Deepti Chakrabarty, Department of Physics, MIT, 77 Massachusetts Avenue, Building 37-626A, Cambridge, MA 02139. The application deadline is December 1, 2008. Applicants must also arrange for three letters of reference to be sent by the deadline. In addition, all applicants must submit an applicant information form available at the following link: <http://web.mit.edu/physics/fyi/facsearch-astro.html>.

MIT is an equal opportunity/affirmative action employer. MIT does not discriminate against any employee or applicant for employment on the basis of race, color, gender, sexual orientation, religion, disability, veteran status, age, or national or ethnic origin in the administration of its employment policies and practices. Women and minority candidates are strongly encouraged to apply. MIT is a non-smoking environment.

No. 24910 (New)

Assistant/Associate Professor - Observational Astronomy
NORFOLK STATE UNIVERSITY
700 Park Avenue
Norfolk, Virginia 23602
USA

Tel: 7578238909

FAX: 7578238817

URL1: <http://rrrtserver.nsu.edu/>

Email Submission Address: mwferguson@nsu.edu

Email Inquiries: carlos@nsu.edu

Attention: Milton Ferguson, Chairman, Department of Physics

The Department of Physics at Norfolk State University invites applications for a tenure-track position in observational astrophysics at the assistant/associate professor level that could begin as early as Fall 2008. The successful candidate should be able to conduct an active research program and procure external funds. Our observational program includes the use of the newly constructed NSU's Rapid Response Robotic Telescope (RRRT) at the Fan Mountain Observatory, VA and the development of astronomical instrumentation. The candidate responsibilities will also include teaching undergraduate courses in astronomy and/or physics; supervise student research activities at the undergraduate level and participate in service related activities. The candidate will be expected to participate in our current research activities centered in the photometric and polarimetric study of compact objects, and in special, Gamma-ray Bursts (GRB) optical afterglows and Blazars using the 24" RRRT. To receive consideration, candidates should have a Ph. D. in Astronomy or Physics; research experience in observational optical astronomy and effective communication skills in both classroom and laboratory settings. Preferred qualifications include: teaching experience at the college level that may include typical graduate student level teaching experience; interest in optical instrumentation and interest in teaching department's intermediate and introductory level astronomy courses.

Review of applications will begin immediately and will continue until position is filled. Candidates should send a letter of interest, current curriculum vita, statement of teaching and philosophy, official transcripts, and the names, titles, and phone numbers of three references.

No. 24913 (New)

Theoretical Astrophysics
UNIVERSITY OF CHILE
El Observatorio 1515
Chile

Tel: 56-2-977 1091

FAX: 56-2-229 3973

URL1: <http://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 background on theoretical astrophysics and numerical simulations.

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, Departamento de Astronomia, Universidad de Chile, Casilla 36-D, Santiago, Chile. The deadline for applications is 30 October 2008. The selected candidate is expected to start his work no later than March 2009. Further information can be obtained at <http://www.das.uchile.cl> or from Mario Hamuy (mhamuy@das.uchile.cl)

No. 24914 (New)
Faculty Position in Theoretical Astrophysics
UNIVERSITY OF CHILE
Camino El Observatorio 1515
Chile
Tel: 56-2-977 1091
FAX: 56-2-229 3973
URL1: <http://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 background on theoretical astrophysics and numerical simulations.

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, Departamento de Astronomia, Universidad de Chile, Casilla 36-D, Santiago, Chile. The deadline for applications is 30 October 2008. The selected candidate is expected to start his work no later than March 2009. Further information can be obtained at <http://www.das.uchile.cl> or from Mario Hamuy (mhamuy@das.uchile.cl)

No. 24918 (New)
Observational Astronomer at the level of Assistant or Associate Professor
THE UNIVERSITY OF HONG KONG
Pokfulam Road
Hong Kong, SAR 00000
Hong Kong
Tel:
FAX: 852-2540-6735
Email Submission Address: senrappt@hkucc.hku.hk
Email Inquiries: sunkwok@hku.hk

Attention: Appointments Unit (Senior), Human Resource Section, Registry

THE UNIVERSITY OF HONG KONG

Centenary Recruitment Plan

Founded in 1911, The University of Hong Kong is committed to the highest international standards of excellence in teaching and research. The University has a comprehensive range of study programmes and research disciplines, with 20,000 undergraduate and postgraduate students from 50 countries, and a complement of 1,200 academic members of staff.

As the University approaches its 100th anniversary, a major human resource expansion plan has been launched to provide 200 new academic positions. The purpose of this Centenary Recruitment Plan is to enhance our research competitiveness and to facilitate the introduction and delivery of a new four-year undergraduate curriculum from 2012.

Building on Hong Kong's international status and its mission to serve China, the University offers an intellectually-stimulating and culturally-rich academic environment, with attractive remuneration packages.

Tenure-Track Associate Professor/Assistant Professor in Observational Astronomy (Ref.: RF-2008/2009-84)

Applications are invited for appointment as Associate Professor/Assistant Professor in Observational Astronomy in the Department of Physics, from July 1, 2009 or as soon as possible thereafter. The post will initially be made on a three-year term. Appointment with tenure will be considered during the second three-year term.

The Department of Physics has strong groups in condensed matter physics, including nanoscience and nanotechnology, as well as in theoretical and observational astrophysics. Current astronomical research areas include stellar, planetary, and interstellar medium research, with relating astrobiology research in the Department of Earth Sciences and School of Biological Sciences. We seek an astronomer with observational experience in ground-based or space-based telescopes and who can initiate programs in international observational facilities.

The appointee should have a demonstrated record in research and a commitment to excellence in undergraduate and graduate teaching. Research start-up funds will be available. Information about the Department can be obtained at <http://www.physics.hku.hk/>

Annual salaries will be in the following ranges (under review): Associate Professor : HK\$622,740 – 963,060 Assistant Professor : HK\$474,600 – 733,440 (approximately US\$1 = HK\$7.8)

The appointment will attract a contract-end gratuity and University contribution to a retirement benefits scheme, totalling up to 15% of basic salary, as well as leave, and medical/dental benefits. Housing benefits will be provided as applicable. At current rates, salaries tax does not exceed 15% of gross income.

For enquiries of the existing research activities and the specific job requirements, please write to Professor Sun Kwok, Dean of Science (e-mail: sunkwok@hku.hk). Further particulars and application forms (152/708) can be obtained at <https://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Human Resource Section, Registry, The University of Hong Kong, Hong Kong (fax: (852) 2540 6735 or 2559 2058; e-mail: senrappt@hkucc.hku.hk). Closes December 31, 2008. Candidates who are not contacted within 4 months of the closing date may consider their applications unsuccessful.

The University is an equal opportunity employer and is committed to a No-Smoking Policy

No. 24923 (New)
Faculty Position in Astronomy
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE
Vicuna Mackenna 4860
Macul
Santiago, Region Metropolitana 690-4411
Chile
Tel: 56 2 3544940
FAX: 56 2 3544948
URL1: www.astro.puc.cl

Email Submission Address: director@astro.puc.cl
Email Inquiries: director@astro.puc.cl

Attention: Alejandro Clocchiatti, Director

The Faculty of Physics at Pontificia Universidad Catolica de Chile offers a tenure-track position in Astronomy at the Assistant Professor level, beginning as early as January 2009. A Ph.D. degree is required. The successful candidate will join the Department of Astronomy and Astrophysics, which includes eleven faculty and seven postdocs carrying out research in cosmology, extragalactic, Galactic, stellar astrophysics, and extrasolar planets, using optical, near-IR, sub-mm, and radio observations, as well as theoretical work.

The position is open to all areas of observational, experimental and theoretical astrophysics. The primary qualification is excellence in research. We particularly welcome applications from researchers with experience with large astronomical surveys and databases or astronomical instrumentation.

The successful applicant will have access to 10% of all the telescope time in Chile, including VLT, Gemini, Magellan, APEX, ASTE, ALMA, and other telescopes to be installed in Chile. Teaching duties are in astronomy and physics, at the undergraduate and graduate levels. The candidate is expected to be able to teach in Spanish within a year. Further information can be obtained at <http://www.astro.puc.cl> or from A. Clocchiatti (director@astro.puc.cl).

Applicants should submit a curriculum vitae and short statements of research and teaching interests, and should arrange for three letters of recommendation to be sent directly to Dr. Alejandro Clocchiatti at the above address before October 31st 2008. E-mail submissions are preferred. Late applications could be considered until the position is filled.

No. 24755 (New)
Assistant Professor of Planetary Science
GEORGE MASON UNIVERSITY
4400 University Drive, MSN 3F3
Fairfax, VA 22030
USA
Tel:
URL1: <http://jobs.gmu.edu>

Attention: Prof. Michael E. Summers, Chair, Search Committee

Assistant Professor of Planetary Science

George Mason University, Department of Physics and Astronomy is accepting applications for a tenure-track position at the Assistant Professor level in the field of planetary science. We are soliciting applicants from any area of theoretical or observational planetary science including the study of extra-solar planets. Successful candidates should have postdoctoral experience and show promise for developing an independent, externally funded research program. The Department of Physics and Astronomy is a dynamic and growing department with 27 faculty members. The Washington, D.C. area offers prospects for collaboration with astronomers and physicists at nearby federal laboratories such as NIST, NRL, Goddard Space Flight Center and the Carnegie Institute of Washington as well as a number of nearby universities. Successful candidates will teach at both graduate and undergraduate levels and play an active role in the department. Applicants should complete the online faculty application for position F7001z at <http://jobs.gmu.edu>, then mail an application including a CV, statements on research and teaching interests (not to exceed 10 pages total), and arrange for three letters of recommendation to all be sent to: Prof. Michael E. Summers, Chair, Search Committee, Dept. of Physics and Astronomy (3F3), George Mason University, 4400 University Drive, Fairfax, VA 22030. Deadline for applications is December 15, 2008. George Mason University is an affirmative action, equal opportunity employer committed to excellence through diversity.

No. 24760
Full Professor of Stellar Astrophysics
DEPARTMENT OF ASTRONOMY, UNIVERSITY OF VIENNA, AUSTRIA
Althanstraße 14
Austria
Tel:
URL1: [http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews\[tt_news\]=6261&tx_ttnews\[backPid\]=11915&cHash=f378196d05](http://personalabteilung.univie.ac.at/index.php?id=13683&tx_ttnews[tt_news]=6261&tx_ttnews[backPid]=11915&cHash=f378196d05)
(complete job announcement)
Email Submission Address: Ingrid.Mayrhofer@univie.ac.at
Email Inquiries: Ingrid.Mayrhofer@univie.ac.at

Attention: Ingrid Mayrhofer

The University of Vienna aims at strengthening its position as a major research-oriented university. Key elements of this strategy include the provision of an attractive range of research-based study programmes, support for furthering the work of junior academic colleagues, and high-calibre professorial appointments.

The Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna announces the position of a

Full Professor of Stellar Astrophysics

(full time permanent position under private law). The University of Vienna intends to increase the number of women on its faculty, particularly in high-level positions, and therefore specifically invites applications by women. Among equally qualified applicants women will receive preferential consideration.

With the recent entry of Austria into the European Southern Observatory (ESO), the University of Vienna is inviting applications for a full professorship in the fields of astrophysics of stars and planetary systems.

The formation, structure and evolution of stars and their planetary systems, as well as their interaction with the interstellar matter, are key chapters in the evolution of the universe. We seek candidates with an outstanding and versatile record of achievement and promise within broad areas of this field. The incumbent is expected to lead a vigorous research programme making effective use of the state-of-the art observational tools available through ESO, ESA, and the University, emphasizing the physical understanding of the underlying processes. Excellence and dedication in teaching are essential as well.

For further details see the related URL.

No. 24768
Tenure-Track Faculty Position in Astronomy and Space Science
CHUNGNAM NATIONAL UNIVERSITY, KOREA
Tel:
URL1: <http://canopus.cnu.ac.kr/ryu/jobs.html> *(for further information)*
Email Submission Address: ryu@canopus.cnu.ac.kr
Email Inquiries: ryu@canopus.cnu.ac.kr

Attention: Prof. Dongsu Ryu

The Department of Astronomy and Space Science at Chungnam National University in Korea is seeking candidates for a tenure-track faculty of all levels (full time lecturer, assistant professor, associate professor, full professor, depending on experiences), starting preferably from March 1, 2009. (In an exceptional case, starting from September 1, 2009 can be considered too.) Outstanding candidates in any field of astronomy and space science (observation and theory) will be considered. This is a regular faculty position, but is open only to non-Korean nationalities.

The successful candidate will assume full teaching responsibilities for undergraduate and graduate courses in The Department of Astronomy and Space Science, and is expected to conduct vigorous research programs. Excellent English language communication skills are required. Applicants must demonstrate a strong record of research as well as strong interests for teaching, and hold a Ph.D. in astronomy, or space science, or related field.

Interested applicants should send 1) curriculum vitae, 2) a list of publications, 3) a statement of research interests and plan to (by email), and should arrange three letters of recommendation to be sent to (by email): Prof. Dongsu Ryu, Chair of Department of Astronomy & Space Science, Chungnam National University, Daejeon 305-764, Korea, ryu@canopus.cnu.ac.kr, by September 30, 2008.

No. 24786

Permanent Lectureship in Extragalactic Radio Astronomy
UNIVERSITY OF SOUTHAMPTON
University Road
Southampton, Hampshire SO171BJ
UK

Tel: 44-(0)23-80592421

URL1: <http://www.soton.ac.uk/jobs/index.shtml> (Location of application form: Reference 2511-08-E)

URL2: <http://www.astro.soton.ac.uk/> (University of Southampton Astronomy Group)

URL3: <http://www.sepnet.ac.uk/> (UK SEPNet consortium)

Email Submission Address: recruit@soton.ac.uk

Email Inquiries: imh@astro.soton.ac.uk

Attention: HR Recruitment, Human Resources

A permanent lectureship is available now at the University of Southampton in the School of Physics and Astronomy. The School received the top 5* rating in the last UK Research Assessment Exercise. The successful applicant must have a strong research record in extragalactic astronomy which complements existing research areas within the astronomy group. The successful applicant should also have considerable expertise in observational radio astronomy in order to exploit the new radio observing facilities, particularly LOFAR but also, eg, eMERLIN. For the first five years the post is funded as a fellowship by the SEPNet consortium and thereafter becomes a normal university lectureship. The astronomy component of SEPNet consists of the universities of Southampton, Oxford, Portsmouth, Sussex, Kent and QMUL. It is expected that the successful applicant will establish a good collaborative working relationship with other members of the astronomy consortium as well as with the core LOFAR teams in The Netherlands.

Further enquiries may be addressed to Professor Ian McHardy (imh@astro.soton.ac.uk). All applicants are requested to notify Professor McHardy of their intention to apply.

Applicants should complete the online application form at <http://www.soton.ac.uk/jobs/index.shtml>, including a CV, a publications list and a statement (up to four pages) covering research experience to date and research plans for the future. The job reference is 2511-08-E. Applicants should also arrange for three references to arrive by the closing date of 30 September 2008.

No. 24790

Junior Faculty Position in Experimental Particle Physics
YALE UNIVERSITY
Chair's Office
P.O. Box 208120
New Haven, CT 06520-8120
USA

Tel: 203-432-3651

FAX: 203-432-8552

URL1: <http://www.yale.edu/physics/>

Email Submission Address: pamela.bosward@yale.edu

Email Inquiries: pamela.bosward@yale.edu

Attention: Pamela Bosward, Exec Asst to the Chair

The Department of Physics at Yale University invites applications for a tenure-track junior faculty position in experimental particle physics. The successful candidate's research program should complement current research at Yale. The Department currently has research programs in collider physics, neutrino physics, dark energy, and exotic and dark matter searches. The Yale HEP group enjoys strong synergy between experimentalists and theorists, and there are major collaborations with both the nuclear physics group and groups within the Yale Center for Astronomy and Astrophysics. We seek applications from outstanding scientists who will excel at both leading an independent research effort, and teaching and mentoring students at the undergraduate and graduate level. Yale offers a world-class intellectual environment; competitive salary, benefits, and research funds. Interested applicants should send a letter (pdf format), curriculum vita, publication list, and a brief description of proposed research to the Chair's office at pamela.bosward@yale.edu, or by mail, to Ms. Pamela Bosward, Department of Physics, Office of the Chair, Yale University, P.O. Box 208120, New Haven, CT 06520-8120. Applicants should also arrange for 4 letters of recommendation to be sent to the same address (email preferred). Applications that are complete by December 1, 2008, will be assured of full consideration. Yale is an Affirmative Action/Equal Opportunity Employer, and applications from women and minorities are strongly encouraged.

No. 24794 (New)

Lectureship/Senior Lectureship in Astronomy
UNIVERSITY OF SUSSEX
Sussex House
Falmer
Brighton, Sussex BN1 9RH
United Kingdom

Tel:

URL1: www.sussex.ac.uk (For full details and applications - NO CV's accepted)

URL2: www.astronomy.susx.ac.uk (Astronomy website)

Email Inquiries: scitechrecruitment@sussex.ac.uk

Attention: Dr Seb Oliver, Director of the Astronomy Centre

Department of Physics & Astronomy Lectureship/Senior Lectureship in Astronomy Ref: 294 Start date: 1 January 2009 or as soon as possible thereafter

Lectureship Salary: £30,013 to £41,545 p.a. depending on qualifications and experience Senior Lectureship Salary: £42,791 to £49,606 p.a. depending on qualifications and experience

Applications are invited for one or two lectureships in extra-galactic Astronomy or Cosmology in the Astronomy Centre. For suitably experienced candidates one appointment could be at Senior Lecturer level.

The Astronomy Centre is one of four research groups within the Department of Physics & Astronomy. It concentrates exclusively on galaxy evolution and cosmology with highly complementary expertise in statistical techniques, numerical simulations and observational surveys. Your research should integrate with and enhance existing activities.

One post is integral to the recently formed South-East Physics Network (SEPNet, www.sepnet.ac.uk), a regional alliance of universities in the southeast of England. Within SEPNet the main common astronomy research project is LOFAR-UK. You will be expected to work on SEPNet activities and to take a leading role in the exploitation of LOFAR.

You will also carry out undergraduate teaching and develop and deliver graduate-level courses in your specialist area.

Informal enquiries may be directed to Dr. Seb Oliver, Director of the Astronomy Centre: S.Oliver@Sussex.ac.uk. The Centre's website is astronomy.susx.ac.uk

Closing date: 30 September 2008

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

The University of Sussex is committed to equality of opportunity

No. 24817

Tenure Track Staff Position in Observational Astronomy and Instrumentation Development

MAX PLANCK INSTITUTE FOR ASTRONOMY

Koenigstuhl 17

Germany

Tel: +49-6221-528-211

FAX: +49-6221-528-339

URL1: www.mpia.de (Institute homepage)

URL2: www.mpia.de/Public/menu_gc.php (Department Galaxies and Cosmology)

Email Submission Address: koltes@mpia.de

Email Inquiries: rix@mpia.de or herbst@mpia.de

Attention: Susanne Koltes-Al-Zoubi

The Max-Planck Institute for Astronomy (MPIA) in Heidelberg is seeking an ambitious, highly qualified astrophysicist to fill a tenure track position in the field of observational astronomy and instrumentation.

The successful candidate will be expected to carry out an independent program of research, as well as take a leading role in instrumentation development efforts at MPIA. We are looking for researchers interested in tackling important astrophysical problems using leading-edge techniques in optical and near infrared astronomy. These include wide field imaging and spectroscopy, adaptive optics, and interferometry. The MPIA provides a rich environment for collaboration on galaxies and cosmology, planet and star formation, theoretical astrophysics, and instrument development. We are particularly seeking candidates with science expertise and interest in the areas of nearby galaxies, galaxy formation and evolution, or in cosmology, although other areas will also be considered. For more information on MPIA research please see <http://www.mpia.de>.

As an MPIA researcher, the successful applicant will have 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 the Very Large Telescope (+Interferometer) in Chile. In addition to these facilities, MPIA astronomers regularly use (sub-)millimeter observatories such as IRAM and APEX. MPIA is also a partner in the Pan-STARRS1 and SDSS-III surveys.

The MPIA is actively involved in developing instruments for these facilities, as well as for future observatories including Extremely Large Telescopes and space missions. A central role for the successful applicant will be in defining and leading innovative instrumentation initiatives that harmonize with his or her science interests, as well as those of other MPIA staff. The MPIA has outstanding in-house engineering expertise and workshops to design and construct instrumentation.

Applicants must have a PhD in astronomy, astrophysics, or a closely related field, as well as experience in instrumentation development. Remuneration will follow the guidelines set for staff members by the Max Planck Society. The appointment will be for an initial period of five years, with the possibility of tenure based on a successful performance review. The position includes funds for publications, travel, etc.

Interested candidates should send application materials, including curriculum vitae and a brief statement of research interests to the address above by October 15, 2008. They should also arrange for at least three letters of reference to be sent directly to that address by the same date. Electronic format is acceptable. For further questions, please contact Hans-Walter Rix (rix@mpia.de) or Tom Herbst (herbst@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. 24825 (New)

Research Associates

CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS, UNIVERSITY OF TORONTO

60 St. George Street

Toronto, ON M5S 3H8

Canada

Tel: 416-978-6879

FAX: 416-978-3921

URL1: www.cita.utoronto.ca

Email Inquiries: office@cita.utoronto.ca

Attention: Lev Kofman, Acting Director

Research Associates CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS (CITA) Web Submission Address: <http://www.cita.utoronto.ca/>

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 1 September, 2009. 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 L. Kofman, Acting 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, 2008.

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. 24797

**Joint ALMA Observatory Antenna Group Manager
NATIONAL RADIO ASTRONOMY OBSERVATORY
520 Edgemont Road
Charlottesville, VA 22903
USA**

Tel:

URL1: <http://www.nrao.edu>

URL2: http://www.nrao.edu/administration/personnel_office/careers.shtml (Careers page)

URL3: <http://www.eso.org>

Email Submission Address: resumes@nrao.edu

Attention: Human Resources - CL00018

The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership between Europe, Japan and North America in cooperation with the Republic of Chile. ALMA construction and operations are led on behalf of Europe by ESO, on behalf of Japan by the National Astronomical Observatory of Japan (NAOJ) and on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI).

The Joint ALMA Observatory (JAO) is seeking a senior engineer to become the Manager of the ALMA Antenna Group. He/she will lead a group of 40 people and be responsible for all activities associated with the reliable and effective operation of all antennas in the array.

This position reports to the Head of Technical Services. The successful candidate will be responsible for the day-to-day operation and maintenance of all antennas and associated equipment (e.g. optical pointing telescopes, nutators), developing the required maintenance schedules and programs and, thereafter, monitoring their execution. Specific responsibilities of the position include: ensure all antennas are operating reliably, safely and to specification; oversee the ALMA array reconfigurations, including all antenna relocations; prompt response to and resolution of antenna problems reported by the Department of Science Operations; oversee the antenna and antenna transporter preventive and corrective maintenance program, including setting up the maintenance plan; in partnership with staff from the ALMA executives, develop and execute the continued ALMA antenna development program; all group personnel management, including hiring activities, and evaluations of direct staff; and budgeting and documentation for the group.

A university degree in Electrical or Mechanical Engineering or equivalent is required as well as at least 6 years of relevant field engineering experience in similar large research and/or high technology projects; strong managerial and leadership skills, with demonstrated ability to lead, supervise, mentor and evaluate staff; creative thinking and problem solving skills, capacity to work under pressure; excellent interpersonal skills; excellent verbal and written communication skills in English are essential, together with at least a working knowledge or willingness to learn Spanish. Candidate must also have or be able to obtain valid drivers license, man-lift and other similar licenses as necessary.

Experience in one or more of the following areas is highly desirable: previous experience with radio astronomy or satellite communication antennas; precision motion control and metrology, photogrammetry and surveying techniques; modern servo control theory; experience with carbon fiber and other composite materials; and FEA modeling. As the project is located at elevations between 2400m and 5000m the candidates must possess compatible health conditions and be able to pass the high-altitude medical examination.

The position is based at ALMA's Operation Support Facility (OSF) near San Pedro de Atacama and the Array Operation Site (AOS) located at Chajnantor, 5000m altitude. Work will be on a shift system.

ALMA international staff will be recruited as employees of either ESO or AUI/NRAO. ESO and AUI/NRAO offer attractive remuneration packages including a competitive salary, comprehensive social benefits, and financial support in relocating families. Furthermore, an expatriation allowance as well as some other allowances may be added.

For details and to download an application form, please consult our homepages: ESO at <http://www.eso.org> or NRAO/AUI at <http://www.nrao.edu/>

If you are interested in working in areas of frontline technology and in a stimulating international environment please send your application in English to the Personnel Office, stating the position code CL00018 – AG Manager at either of the following addresses: ESO, please apply on-line at <https://jobs.eso.org/> or NRAO, 520 Edgemont Road, Charlottesville VA 22903, or electronically to resumes@nrao.edu. Review of the applications will begin September 15, 2008: however we will accept applications until the position is filled. All applications should include the names of four individuals willing to serve as professional references for the applicant.

NRAO/ESO are equal opportunity employers. The post is equally open to suitably qualified male and female applicants.

No. 24798

**Joint ALMA Observatory Electronics Group Manager
ATACAMA LARGE MILLIMETER ARRAY
520 Edgemont Road
Charlottesville, VA 22903
USA**

Tel:

URL1: <http://www.alma.cl>

URL2: http://www.nrao.edu/administration/personnel_office/careers.shtml (Careers Page)

URL3: <http://www.eso.org>

Email Submission Address: resumes@nrao.edu

Attention: Human Resources - CL00020

The Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, is a partnership between Europe, Japan and North America in cooperation with the Republic of Chile. ALMA construction and operations are led on behalf of Europe by ESO, on behalf of Japan by the National Astronomical Observatory of Japan (NAOJ) and on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI).

The Joint ALMA Observatory (JAO) is seeking a senior engineer to become the Manager of the ALMA Electronics Group. He/she will lead a group of around 40 people and be responsible for all activities associated with the reliable and effective operation of the ALMA electronics.

This position reports to the Head of Technical Services. The successful candidate will be responsible for day-to-day maintenance of front-end instrumentation packages including cryogenics, back-end electronics and communication packages, local oscillator systems, optical fiber network, and digital correlators. Specific responsibilities of the position include: ensure all electronics subsystems are operating reliably and to specification; prompt response to and resolution of electronics problems reported by the Department of Science Operations; oversee the electronics preventive and corrective maintenance program, including setting up the maintenance plan; in partnership with staff from the ALMA executives, develop and execute the continued ALMA electronics development program; all group personnel management, including hiring activities, and evaluations of direct staff; and budgeting and documentation for the group.

A university degree in Electrical Engineering or equivalent is required as well as at least 6 years of relevant field engineering experience in similar large research and/or high technology projects; strong managerial and leadership skills, with demonstrated ability to lead, supervise, mentor and evaluate staff; creative thinking and problem solving skills, capacity to work under pressure; excellent interpersonal skills; excellent verbal and written communication skills in English are essential, together with at least a working knowledge or willingness to learn Spanish.

Experience in one or more of the following areas is highly desirable: general radio astronomy or similar instrumentation; SIS mixers, HEMT amplifiers and related RF detector technology; 4K cryogenic systems, including cryo-coolers, compressors and associated vacuum systems; local oscillator and time reference distribution systems; fiber optics; and Digital Signal Processing and FPGA development. As the project is located at elevations between 2400m and 5000m, the candidate must possess compatible health conditions and be able to pass the high-altitude medical examination.

The position is based at ALMA's Operation Support Facility (OSF) near San Pedro de Atacama and the Array Operation Site (AOS) located at Chajnantor, 5000m altitude. Work will be on a shift system.

ALMA international staff will be recruited as employees of either ESO or AUI/NRAO. ESO and AUI/NRAO offer attractive remuneration packages including a competitive salary, comprehensive social benefits, and financial support in relocating families. Furthermore, an expatriation allowance as well as some other allowances may be added.

For details and to download an application form, please consult our homepages: ESO at <http://www.eso.org> or NRAO/AUI at <http://www.nrao.edu/>

If you are interested in working in areas of frontline technology and in a stimulating international environment please send your application in English to the Personnel Office, stating the position code CL00020 – EG Manager, at either of the following addresses: ESO, please apply on-line at <https://jobs.eso.org/> or NRAO, 520 Edgemont Road, Charlottesville VA 22903, or electronically to resumes@nrao.edu. Review of the applications will begin September 15, 2008: however we will accept applications until the position is filled. All applications should include the names of four individuals willing to serve as professional references for the applicant.

NRAO/ESO are equal opportunity employers. The post is equally open to suitably qualified male and female applicants.

No. 24727 (New)

**2009 Henri Poincaré Postdoctoral Fellowships
OBSERVATOIRE DE LA CÔTE D'AZUR (OCA)**

Tel:

URL1: <http://www.oca.eu/poincare> (*Henri Poincaré Fellowships: webpage*)

URL2: <http://www.oca.eu/poincare/faq.html> (*Henri Poincaré Fellowships: FAQ*)

URL3: <http://www.oca.eu/poincare/factsheet.html> (*Henri Poincaré Fellowships: Application Factsheet*)

Email Inquiries: cpoca@obs-nice.fr

Attention: Fathi Namouni

The Observatoire de la Côte d'Azur (OCA) offers two postdoctoral fellowships in various research areas related to astronomy and geophysics including: astrometry, coronagraphy, 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. Positions are 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. Positions start between September 1, 2009 and December 1, 2009

Applicants should fill in the Application Factsheet at the address above 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 Comité Postdoctoral, 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, 2008.

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

No. 24831 (New)

Postdoctoral Research Positions in Planetary Science

UC BERKELEY, ASTRONOMY DEPARTMENT

601 Campbell Hall, MC 3411

Berkeley, CA 94720

USA

Tel: 510-642-8411

FAX: 510-642-3411

URL1: <http://astro.berkeley.edu/cipsjob/>

Email Submission Address: cipsjob@astro.berkeley.edu

Email Inquiries: cipsjob@astro.berkeley.edu

Attention: <http://astro.berkeley.edu/cipsjob/>

Postdoctoral Research Positions in Planetary Science

UNIVERSITY OF CALIFORNIA, BERKELEY Center for Integrative Planetary Sciences Tel: 510-642-8411 Email Inquiries: cipsjob@astro.berkeley.edu

URL: <http://astro.berkeley.edu/cipsjob/>

The Center for Integrative Planetary Sciences (CIPS) at the University of California, Berkeley, invites applications for a number of Postdoctoral Research positions in planetary science, starting in the fall of 2009. The positions are for two years, with renewal for a third year contingent on performance and funding.

Current senior members of CIPS include Jill Banfield, Gibor Basri, Kristie Boering, Eugene Chiang, William Dietrich, Imke de Pater, Raymond Jeanloz, Michael Manga, Philip Marcus, Geoff Marcy, and Burkhard Militzer. Successful candidates will have overlapping research interests with these faculty members. Current research areas span astronomical observations of the solar system, Martian geodynamics and geomicrobiology, planetary interiors, planetary

atmospheres, planet formation theory, protoplanetary disks, and extrasolar planets. Special attention will be paid to candidates with broad interests and expertise who can bridge Berkeley's Earth and Planetary Science Department and Astronomy Department.

Candidates should have obtained their Ph.D. in astrophysics, planetary science, or a related field. Required application materials include a CV, bibliography, and statement of research interests and plans. Please submit applications electronically at <http://astro.berkeley.edu/cipsjob/> by December 1, 2008. Three letters of reference should be emailed to cipsjob@astro.berkeley.edu by the same date. The applicant's full name should be included in the subject line of the email containing the letter of reference.

The University of California, Berkeley is committed to affirmative action by actively recruiting qualified women and minorities for employment opportunities: Affirmative Action Employer/Equal Opportunity Employer.

No. 24841 (New)
Associate Specialists in Theoretical Astrophysics and Relativity
KAVLI INSTITUTE FOR THEORETICAL PHYSICS
Tel:
URL1: <http://www.kitp.ucsb.edu/activities> (*Institute Website*)
Email Submission Address: pdapps@kitp.ucsb.edu
Email Inquiries: bildsten@kitp.ucsb.edu

Attention: Professor David Gross

The Kavli Institute for Theoretical Physics (KITP) expects to appoint Postdoctoral Level Researchers as Associate Specialists in theoretical astrophysics and relativity starting September 1, 2009. The KITP's purpose is to contribute to the progress of theoretical physics, especially in areas overlapping the traditional subfields, in ways that are not easily realized in existing institutions. The scientific work is carried out by approximately 70 members, including the director, deputy director, 5 permanent members, 10-15 postdoctoral members, and 50-55 visiting senior members. KITP permanent members and postdoctoral fellows are active in all areas of theoretical physics, including astrophysics and relativity. Most visiting members are participants in major programs that last 2-5 months, there are at least eight programs per year. Current and future astrophysics programs include Dynamo Theory (Spring 2008), Building the Milky Way (Fall 2008), Formation and Evolution of Globular Clusters (Winter 2009), Particle Acceleration in Astrophysical Plasmas (Fall 2009), and Theory and Observation of Exoplanets (Winter 2010).

KITP postdocs have opportunities for international collaborations with CITA and MPA-Garching. For current information on this and other programs, see <http://www.kitp.ucsb.edu/activities>. Applications for postdoctoral positions should be made electronically via our web page at <http://www.kitp.ucsb.edu/pdapps>. Inquiries regarding scientific and/or programmatic issues may be addressed to Professor Lars Bildsten (bildsten@kitp.ucsb.edu). In the event that you are unable to upload your documents, hard copies should be sent to Professor David Gross, Director, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, CA 93106-4030. The deadline for applications and all materials is December 1, 2008. Later applications will be considered only as long as openings exist. The University of California, Santa Barbara is an Equal Opportunity/Affirmative Action Employer.

No. 24773
Postdoctoral Research Fellow
SOUTH AFRICAN ASTRONOMICAL OBSERVATORY
P O Box 9
Observatory
Cape Town, Western Province 7935
South Africa
Tel: +27 21 4470025
FAX: +27 21 4473639
URL1: <http://www.sao.ac.za> (*South African Astronomical Observatory*)
Email Submission Address: linda@sao.ac.za
Email Inquiries: linda@sao.ac.za

Attention: Linda Tobin, Personnel Officer

Applications are invited for two postdoctoral research fellowships at the South African Astronomical Observatory (SAAO). The appointments will be for two years, with consideration for tenure after that period.

Preference will be given to candidates whose research interests are relevant to South Africa's exploitation of SALT, and/or the 1.4m Infrared Survey Facility, and who have some experience in astronomical instrumentation and/or programming.

The SAAO is the National Facility for optical/infrared astronomy in South Africa. Its headquarters are in Cape Town where the successful applicant will be based. Observing facilities, situated 360 km away at Sutherland, comprise six telescopes with apertures ranging from 0.5 to 1.9m. The primary facility is the 10-m class Southern African Large Telescope (SALT), currently in the final stages of commissioning. SALT is operated by SAAO on behalf of an international consortium and about one third of its observing time is available to the South African research community.

While the successful applicant will spend most of her/his time on research, he/she will also be encouraged to contribute to instrumentation and/or software development programmers and/or postgraduate teaching and supervision.

More details of SAAO and SALT are available through www.sao.ac.za.

Applicants must have a PhD in astrophysics or a related subject. They should submit a curriculum vitae, with a statement of research and instrumentation interests to: The Personnel Officer, Ms Linda Tobin, SAAO, P O Box 9, Observatory, 7935, South Africa, phone: +27 21 4470025; fax: +27 21 4473639; email: linda@sao.ac.za. Applicants should arrange for three professional referees to supply letters of recommendation by due date 30 September 2008.

SAAO is committed to equity.

No. 24802
MWA Postdoctoral Fellowship
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
Mail Stop 42
60 Garden St
Cambridge, MA 02138
USA
Tel: 617 495 7194
FAX: 617 495 7345
URL1: <http://www.havstack.mit.edu/ast/arrays/mwa/index.html>
URL2: <http://www.cfa.harvard.edu/ssci>
URL3: <http://iic.harvard.edu>

Email Submission Address: greenhill@cfa.harvard.edu
Email Inquiries: greenhill@cfa.harvard.edu

Attention: Dr. Lincoln J. Greenhill, MWA Project Scientist

Applications are invited to work at SAO on science and instrument development for the Murchison Wide-field Array (MWA), a next-generation, large-N, low-frequency interferometer to be completed by mid-2010. Key science programs target cosmological reionization, the Sun and heliosphere, transients, and foregrounds, e.g., the diffuse polarized ISM. Candidates interested in any of these, or other feasible programs, are encouraged to apply.

The SAO group leads development of the multi-Teraflop real-time data pipeline, data simulator, and all-sky survey. Group members gain intimate knowledge of MWA's inner workings, thus opening science-research opportunities. Collaborations thus far have included observers, theorist, instrumentalists, engineers, and computer scientists, working at Harvard's Initiative in Innovative Computing, Institute for Theory and Computation, Haystack Observatory, MIT, and Australian and Indian partners. Candidates should have earned a PhD in astrophysics or related field. Past research activity that would contribute to MWA key-science programs or potential new avenues of study will be weighted strongly. Particularly welcome technical experience includes radio interferometry algorithm or instrument development, polarimetry, wide-field imaging, foreground characterization and removal, and parallel, multi-core, or GPU-based computing.

Development of an independent research program will be encouraged, including the use of other instruments. Strong C-programming and scripting skills under Linux are required. The position is offered for two years, renewable for a third, contingent on performance and availability of anticipated funds. The stipend is \$54,000 with health insurance. The start date is June 1, 2009, though earlier is strongly preferred.

Interested candidates are encouraged to contact Dr. Lincoln Greenhill. Application will require email submission of a CV, bibliography, preferred start date(s), statement of research accomplishments and description of interests. Three letters of recommendation should be sent separately. Review of applications will begin November 1 and continue until the position is filled. AAE/EOE

No. 24804

Postdoctoral Position in Extragalactic Astronomy
UNIVERSITY OF VIRGINIA

530 McCormick Road
Charlottesville, VA 22904
USA

Tel: 434-924-4896

FAX: 434-924-3104

URL1: <http://goals.ipac.caltech.edu/>

Email Submission Address: aevans@virginia.edu

Email Inquiries: ae3f@mail.astro.virginia.edu

Attention: Aaron Evans

Applicants are invited to apply for a postdoctoral research position to work with Professor Aaron Evans on topics involving local luminous infrared and star-forming galaxies. The work will involve analysis of HST imaging data of local Luminous Infrared Galaxies. These datasets are one facet of the Great Observatory All-sky LIRG Survey (GOALS), which is a study of local infrared galaxies in detail using multiple space-based datasets. The applicant will have the opportunity to pursue original research programs using the full GOALS dataset. Further information is given on the GOALS web site (<http://goals.ipac.caltech.edu/>).

Research experience in extragalactic studies with an emphasis on interacting or starburst galaxies and UV/infrared emission is desired. Experience with the reduction and photometric measurement of space-based data (particularly ACS, WFC2 or similar data) are also highly desired. Candidates should have obtained, by the starting date, a Ph.D. in Astronomy, Physics, Astrophysics, or equivalent.

The appointment is for one year, renewable for up to two additional years, and will ideally begin on or before November 1, 2008. To apply, please send resume, publication list, and statement of research to the above address, and have three letters of reference forwarded to the same address. The University of Virginia is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

No. 24748

Postdoctoral positions in Planetary Science
THE UNIVERSITY OF WESTERN ONTARIO

Tel:

URL1: <http://aquarid.physics.uwo.ca/index.htm> (*The University of Western Ontario Meteor Group*)

URL2: <http://aquarid.physics.uwo.ca/planetsci/> (*The University of Western Ontario Planetary Science Group*)

Email Submission Address: pwiegert@uwo.ca

Email Inquiries: pwiegert@uwo.ca

Attention: Paul Wiegert

The Meteor Physics group in the Physics and Astronomy Department at the University of Western Ontario is seeking to fill two postdoctoral positions on topics involving the physics of meteors in the atmosphere as well as the dynamics of meteoroids in interplanetary space. The successful candidates will work with Dr. Paul Wiegert, Dr. Margaret Campbell-Brown or Dr. Peter Brown examining data from automated video and radar meteor stations located near London, Canada. These stations provide high-spatial and temporal resolution data on the properties of meteors, including optical light curves, radar ionization profiles, positions and velocities as well as providing spectral information. Experience with astronomical, radar or video image processing and/or dynamical simulations is desirable but not required. More information on research by the group can be found at <http://aquarid.physics.uwo.ca>

The appointment is for one year renewable for up to two more years, and could begin as early as September 1 2008. To apply, please send a CV and publication list to the above address as soon as possible, and have three letters of reference forwarded to the same address. The University of Western Ontario is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.

No. 24822 (New)

Postdoctoral Position in High Energy Astrophysics

UNIVERSITY OF MICHIGAN

2477 Randall 450 Church Street

Ann Arbor, MI 48109-1040

USA

Tel: 734-764-9278

FAX: 734-936-6529

URL1: www.rotse.net

Email Submission Address: akerlof@umich.edu

Email Inquiries: akerlof@umich.edu

Attention: Carl Akerlof, Professor of Physics

The ROTSE project at the University of Michigan is seeking to fill a second post-doctoral scholar position in Ann Arbor starting in the fall of 2008 (in addition to AAS listing #24655). The successful applicant is expected to take primary responsibility for our program to discover nearby supernovae shortly after explosion. This project, which is currently undergoing significant expansion, has already resulted in the discovery of the remarkable superluminous events SN 2005ap and SN 2006gy. Spectroscopic characterizations are obtained through a variety of collaborative arrangements with larger observatories. Candidates are also expected to participate in other aspects of the ROTSE research program, particularly the prompt optical observation of gamma-ray bursts and the characterization of events identified by the NASA GLAST mission that launched on June 11, 2008. Taking advantage of the wide field of view of the ROTSE instruments, we are also planning follow-up observations of sources identified by the IceCube neutrino detector and the LIGO gravitational wave detector. Identification of the optical counterpart of an IceCube or LIGO source would have major implications for astrophysics.

In addition to a PhD in physics or astronomy, the successful candidate should have some background in optical imaging techniques and a good working knowledge of Linux/UNIX systems. Occasional travel to ROTSE locations in Australia, Texas, Namibia and Turkey is required. Please contact Professor Carl Akerlof at the E-mail address or telephone number given above.

The University of Michigan is an Equal Opportunity Employer. This position is open until filled.

No. 24824 (New)
CITA Postdoctoral Fellowships
CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS, UNIVERSITY OF TORONTO
60 St. George Street
Toronto, ON M5S 3H8
Canada
Tel: 416-978-6879
FAX: 416-978-3921
URL: www.cita.utoronto.ca
Email Inquiries: office@cita.utoronto.ca

Attention: Lev Kofman, Acting Director

Postdoctoral research fellowships beginning September 1, 2009 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. L. Kofman, Acting Director, CITA, McLennan Labs, 60 St. George Street, Toronto, Ontario CANADA, M5S 3H8.

DEADLINE FOR APPLICATIONS AND ALL LETTERS OF RECOMMENDATION IS NOVEMBER 15, 2008

No. 24826 (New)
CITA National Postdoctoral Fellowships
VARIOUS
Tel:
URL: www.cita.utoronto.ca

Attention: Various

CITA NATIONAL POSTDOCTORAL FELLOWSHIPS

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 is November 15, 2008 for fellowships to start in September 2009.

If you are interested in applying for National fellowships at other universities in Canada, please contact any of the following faculty by e-mail or check department websites for further research and application details:

Professor Andrew Cumming, McGill University, <http://www.physics.mcgill.ca>; Professor Douglas Scott <http://www.astro.ubc.ca/pdf/>, University of British Columbia; Professor Julio Navarro, University of Victoria <http://www.phys.uvic.ca>; Professor Sharon Morsink, University of Alberta, morsink@phys.ualberta.ca; Dr. Natalia Ivanova, University of Alberta, http://www.cita.utoronto.ca/~nata/postdoc_2008.html; Professor Kayll Lake, Queen's University lake@astro.queensu.ca; Professor Alan Coley, Dalhousie University, aac@mathstat.dal.ca; Department of Astronomy and Physics, St. Mary's University <http://www.smu.ca/academic/science/ap/welcome.html>; Department of Physics and Astronomy, University of Calgary, <http://www.ucalgary.ca/phas>; Department of Physics and Astronomy, University of Waterloo, <http://astro.uwaterloo.ca/citafellow.html>; Department of Physics, University of Guelph http://www.physics.uoguelph.ca/www_physics;

No. 24828 (New)
Townes Postdoctoral Fellowship in Experimental Astrophysics and Space Physics
UNIVERSITY OF CALIFORNIA, BERKELEY - SPACE SCIENCES LABORATORY
Space Sciences Laboratory
7 Gauss Way, MC #7450
Berkeley, CA 94720
USA
Tel:

Attention: Daniele Meilhan, Townes Fellowship Coordinator

The University of California, Berkeley invites applications for a Townes Postdoctoral Fellowship in EXPERIMENTAL ASTROPHYSICS AND SPACE PHYSICS. This fellowship is designed to allow recent Ph.D. recipients the opportunity to pursue independent research projects, in part by being granted

Principal Investigator status at UC Berkeley for the duration of their fellowship. It is expected, however, that the recipient will work closely with one of the established experimental research groups at UC Berkeley, taking advantage of existing facilities and resources. Applicants are strongly encouraged to contact the research group with which they are likely to be associated. While the focus of the Townes Fellowship is primarily instrumental, strong observational components to the proposed research program are encouraged.

Fellowships are awarded for two years beginning in Fall 2009. The annual salary is \$59,772 with an additional research fund of \$5,000 per year. Applications are due November 14, 2008, and should be sent to Daniele Meilhan, Townes Fellowship Coordinator, University of California, Berkeley - Space Sciences Laboratory, 7 Gauss Way, CA 94720-7450. Applications should include curriculum vitae, a bibliography of publications, selected preprints, and a description of the proposed research including the relevant resources available through the associated research group at UC Berkeley. In addition, the applicants should arrange for at least three letters of recommendation to be sent directly to the address above. Refer potential reviewers to the UC Berkeley Statement of Confidentiality found at: <http://apo.chance.berkeley.edu/evaltr.html>

UC Berkeley actively seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. Women and underrepresented minority applicants are strongly encouraged to apply. The University of California is an equal opportunity, affirmative action employer.

No. 24829 (New)
Postdoctoral Position in Spectroscopy of Massive Stars
UNIVERSITY OF AMSTERDAM
Kruislaan 403
Amsterdam, The Netherlands 1098 SJ
The Netherlands
Tel: +31 20 525 7491
FAX: +31 20 525 7484
Email Submission Address: A.dekoter@uva.nl
Email Inquiries: A.dekoter@uva.nl

Attention: A. de Koter, prof.

A three year post-doc position is available at the Astronomical Institute of the University of Amsterdam, to work on observational and interpretative studies of early-type massive stars.

The project aims at a comprehensive study, by means of spectral analysis, of the effects of mass loss and rotation on the evolution of massive stars. The candidate will participate in the ground-breaking VLT-FLAMES Tarantula Survey, a multi-epoch spectral survey of ~1000 massive stars in 30 Doradus, conducted by an international team of researchers.

The unprecedented target size, the youth of the Tarantula nebula and the presence of several sub-populations from different generations of star formation, ensures that the upper HR diagram is sufficiently well populated with rare, short-lived evolutionary phases to provide strong constraints on theory. The candidate will concentrate on calibration and quantitative spectral analysis using state of the art stellar atmospheres, and confront the stellar properties with tailored evolutionary predictions.

The candidate should hold a PhD in astrophysics or related fields. Experience with astronomical observations, data reduction and optical spectroscopy is desirable. Applications should include a curriculum vitae, a publication list, a brief statement of research interests, and two letters of reference. Review of applications will begin on October 1st and continue until the position is filled. Salary will be on the standard Dutch university scale. The position is funded by the Dutch Organisation for Scientific Research (NWO).

No. 24830 (New)
Advanced Postdoctoral (5-years) Contracts in Astrophysics
CENTRO DE ASTROFISICA DA UNIVERSIDADE DO PORTO
Rua das Estrelas
Porto, Porto 4150-762
Portugal
Tel: +351 - 226 089 830
FAX: +351 - 226 089 831
URL1: <http://www.astro.up.pt/caup/index.php?WID=141&Lang=uk&CID=1&ID=41> (Full Announcement at CAUP)
URL2: <http://www.eracareers.pt/opportunities/index.aspx?task=global&jobId=10522> (Official Announcement)
Email Submission Address: mario.monteiro@astro.up.pt
Email Inquiries: mario.monteiro@astro.up.pt

Attention: Mario J. P. F. G. Monteiro, Prof. Doutor

The Centro de Astrofisica da Universidade do Porto (CAUP - www.astro.up.pt) opens a call for 2 Advanced Postdoctoral Researchers. The positions are for 5 years starting before the end of 2008. The net yearly income is above 42 000 euros (before taxes) corresponding to the salary of an Assistant Professor.

CAUP is the largest Astronomy Research Institute in Portugal, evaluated as "Excellent" by an international panel. The fields of research at CAUP range from the Origin and Evolution of Stars and Planets (Star Formation and Early Evolution, Planetary Systems, Stellar Evolution) to Galaxies and the Evolution of the Universe (Physical Properties of Galaxies, Observational Cosmology).

The contracts are aimed at researchers with expertise in any of the areas currently represented at CAUP. For applications of similar quality, preference will be given to the fields of Physical Properties of Galaxies, Galaxy Formation and Evolution or applicants with experience in the scientific support of projects in Astronomical Instrumentation (associated with any of the scientific topics at CAUP).

The selection of the candidates will be based on the contribution they can give to consolidate the development of the existing teams at CAUP by bringing complementary expertise for the ongoing activities. The applicants must have a relevant scientific curriculum and publication record and have significant experience in their field of research. Three years experience as a postdoc is preferred. The positions will be filled, following the proposal by the Selection Committee and final decision by FCT.

Deadline for applications: 22nd September 2008

No. 24832 (New)
Post Doc
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
URL1: <http://www.stsci.edu/institute/employment> (Employment Link)
Email Inquiries: careers@stsci.edu

Attention: (Applications should be submitted through given link)

Applications are invited for a postdoctoral research position at the Space Telescope Science Institute (STScI) starting as early as January 2009 and lasting for up to three years. The successful applicant will work with Dr. Claus Leitherer and collaborators on studies of the interstellar medium and the stellar populations of star-forming galaxies. The successful candidate will spend part of her/his time on the analysis of data collected with the Cosmic Origins Spectrograph, which is currently scheduled for installation in the Hubble Space Telescope in October 2008. Research experience in computational astrophysics and numerical methods is desirable. A PhD in astronomy or astrophysics is required.

Requirements: STScI is located on Johns Hopkins University Campus in Baltimore, Maryland. STScI's pay is commensurate to the year of Ph.D. The appointment will be made for an initial period of one year with the possibility for extension to three years contingent on performance and funding. STScI offers an excellent benefit package, competitive salaries and a stimulating research environment.

Applicants are required to apply on-line at <http://www.stsci.edu/institute/employment> and upload into the "Resume Upload" Section a: 1) curriculum vitae 2) list of publications, and 3) brief statement of research interests, accomplishments, and relevant technical expertise (PDF format preferred).

Questions may be directed to leitherer@stsci.edu. Completed applications received by October 31, 2008 are assured of full consideration. EEO/AA/M/F/D/V

No. 24835 (New)
POSTDOCTORAL PRIZE FELLOWSHIPS IN THEORETICAL PHYSICS OR ASTROPHYSICS
CALIFORNIA INSTITUTE OF TECHNOLOGY
1200 E. California Blvd.
Pasadena, CA 91125
USA
Tel:
URL1: <http://www.pma.caltech.edu/GSR/positionsavail.html>
Email Inquiries: nell@caltech.edu

Attention: THEORETICAL PHYSICS AND THEORETICAL ASTROPHYSICS FELLOWSHIPS, MC 103-33

California Institute of Technology invites applications for a number of Prize Fellowships at the Postdoctoral Scholar level in Theoretical Physics or Astrophysics. They are to begin in Fall 2009. The Postdoctoral Scholar appointments are for a three-year duration, carry an annual stipend and/or salary combination totaling \$60,000 and offer a research expense fund of \$5,000 per year. 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 following areas: 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, 2008. 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, 2008. 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. 24836 (New)
POSTDOCTORAL PRIZE FELLOWSHIPS IN EXPERIMENTAL PHYSICS OR ASTROPHYSICS
CALIFORNIA INSTITUTE OF TECHNOLOGY
MC 103-33
1200 E. California Blvd.
Pasadena, CA 91125
USA
Tel:
URL1: <http://www.pma.caltech.edu/GSR/positionsavail.html>
Email Inquiries: nell@caltech.edu

Attention: EXPERIMENTAL PHYSICS AND EXPERIMENTAL ASTROPHYSICS FELLOWSHIPS

California Institute of Technology invites applications for 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 2009 and are for a three year duration. They carry an annual stipend and salary combination totaling \$60,000 and offer a research expense fund of \$5,000 per year. 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 working in following areas: 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, 2008. 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, 2008. 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. 24837 (New)
Post Doctoral Fellowship with the Submillimeter Array
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
Tel:
URL1: <http://www.cfa.harvard.edu/opportunities/fellowships/sma/>
URL2: <http://sma1.sma.hawaii.edu>
Email Submission Address: smapostdoc@cfa.harvard.edu
Email Inquiries: smapostdoc@cfa.harvard.edu

Attention: 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 star envelopes, supermassive black holes, nearby galaxies, and starbursts at cosmological distances. Detailed information about the SMA is available at the SMA Observer Center, <http://sma1.sma.hawaii.edu>.

Applications are invited for SMA Postdoctoral Fellowships starting in fall 2009. 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 with a desire to be based at the SMA facility at the University of Hawaii, Hilo, HI, are also encouraged to apply. More 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 December 1, 2008.

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. 24839 (New)
Postdoctoral Position in Galaxy Formation and Evolution
UNIVERSITY OF COLORADO
389-UCB
Boulder, CO 80309
USA
Tel:
Email Submission Address: jglenn@casa.colorado.edu
Email Inquiries: jglenn@casa.colorado.edu

Attention: Jason Glenn

The Center for Astrophysics and Space Astronomy at the University of Colorado invites applications for one or two postdoctoral positions to analyze guaranteed time Key Project observations from the SPIRE instrument (Spectral and Photometric Imaging Receiver) onboard the Herschel Space Observatory. The Key Projects will provide unprecedented data sets for characterizing the formation and evolution of galaxies.

Herschel is expected to be launched early in 2009, followed by a performance verification phase, then Key Project observations will begin. Opportunities are available to participate in the analysis of data from two key projects. The first is a deep, multilayer survey for galaxies up to high redshifts to characterize the luminosity function, star formation history, and energy sources of submillimeter-selected galaxies. The second is a survey of a sample of nearby galaxies to characterize their interstellar media to build a reference catalog. SPIRE observations will include broadband 250, 350, and 520 micron imaging; they will be complemented by additional Herschel imaging and spectroscopy and multiwavelength data sets.

Funding is available for three years. Salary will be commensurate with the successful applicant's experience.

To apply, send a CV listing education and research experience, including a list of publications, to Professor Jason Glenn, CASA 389-UCB, Department of Astrophysical and Planetary Sciences, University of Colorado, Boulder, CO, 80309. Applicants must have a Ph.D. in physics, astronomy, or a closely related field. Arrange for at least two letters of recommendation to be sent to the above address. Applications will be accepted until the position is filled. Please send inquiries to jglenn@casa.colorado.edu.

The University of Colorado is committed to diversity and equality in education and employment.

No. 24843 (New)
Einstein Fellowship Program
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street, MS #04
Cambridge, MA 02324
USA
Tel: 617-495-7146
URL: <http://cxc.harvard.edu/fellows/>
Email Inquiries: fellows@head.cfa.harvard.edu

Attention: Dr. Nancy Evans, Scientist

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

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, GLAST, XMM-Newton, INTEGRAL, and IXO (formerly Constellation-X) missions, cosmological investigations relevant to the Planck and JDEM missions, and gravitational astrophysics relevant to the LISA mission. Proposed research programs should be compatible with the interests of the Host Institution. This program is open to applicants of any nationality who earn doctoral degrees between January 1, 2006 and September 1, 2009 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 7, 2008 (5:00 pm EST). The Einstein Fellow appointments are expected to begin on or about 1 September 2009. Women and members of minority groups are strongly encouraged to apply.

No. 24844 (New)
NASA Postdoctoral Fellow in Theoretical Astrophysics
NASA GODDARD SPACE FLIGHT CENTER

Tel:
URL1: <http://nasa.orau.org/postdoc/> (Program administrators: Oak Ridge Associated Universities)
URL2: <http://astrophysics.gsfc.nasa.gov> (Astrophysics programs at NASA GSFC)
Email Inquiries: eli.dwek@nasa.gov

Attention: *Eli Dwek*

NASA Postdoctoral Fellowships in Theoretical Infrared Astrophysics NASA/GODDARD SPACE FLIGHT CENTER Tel: URL1:
<http://astrophysics.gsfc.nasa.gov> Attention: <http://nasa.orau.org/postdoc/>

Applications are now being accepted through the NASA Postdoctoral Program (NPP) to carry out theoretical research in the Astrophysics Science Division at the NASA-Goddard Space Flight Center (GSFC) in Greenbelt, MD with advisor Dr. Eli Dwek, eli.dwek@nasa.gov. Activities include: modeling the infrared emission from the Galactic interstellar medium; multiwavelength analysis and modeling of the spectral energy distribution of galaxies via population synthesis, radiative transfer, and chemical evolution models; researching the origin, nature, properties, physical interactions, and evolution of dust in the Galaxy and in the local and high-redshift universe; and determining the intensity, spectrum, and redshift evolution of the extragalactic background light. The next NPP Fellowship application deadline is November 1, 2008. Please contact Eli Dwek, eli.dwek@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. 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. 24845 (New)
Astrophysics Postdoctoral Research Positions at JPL
JET PROPULSION LABORATORY (JPL)
MS 180-703
4800 Oak Grove Drive
Pasadena, CA 91109-8099
USA
Tel: 818-393-0518
Email Inquiries: Paul.F.Goldsmith@jpl.nasa.gov

Attention: *Dr. Paul F. Goldsmith*

Postdoctoral Research Positions at the Jet Propulsion Laboratory (JPL). You are invited to apply for one or more postdoctoral positions in astrophysics research related to the upcoming Herschel Space Observatory mission. These positions will involve carrying out observations and developing models and software tools for analysis and interpretation of data on interstellar medium, molecular clouds, cloud cores, and star formation. In particular this work will be preparation for data coming from the Herschel Space Observatory, currently scheduled for launch at the end of 2008. Scientists at JPL have a major involvement in this mission and have guaranteed observing time (GT) and include two PIs for Herschel Open Time Key Projects (OTKP). One OTKP, led by Dr. Paul Goldsmith, targets interstellar oxygen chemistry, and the other, led by Dr. William Langer, studies the state of the Galactic diffuse ISM. In preparing for and exploiting data from Herschel, a variety of auxiliary observations will be critical, including submillimeter spectral line and continuum data obtained using facilities including the Caltech Submillimeter Observatory, to which JPL staff have access, the CARMA interferometric array, and other telescopes.

The individual(s) in these positions will be expected to carry out his/her program of research and to collaborate with other staff members in observations leading to and complementary to Herschel, as well as participating in activities associated with the Herschel GT and OTKP. Candidates should have experience in some combination of the following, mm/submm observations, data reduction, and modeling of physics, chemistry, excitation, and radiative transfer in the interstellar medium. Experience developing software is highly desirable. Paul Goldsmith, Senior Research Scientist in JPL's Astrophysics and Space Sciences Directorate, or William Langer, Senior Research Scientist in JPL's Engineering and Science Directorate, will serve as JPL postdoctoral advisor to the selected candidate(s). The appointee will be guided by the JPL postdoctoral advisor to ensure that the research work will result in publications in the open literature.

The appointment is contingent upon evidence of completion of a PhD. The annual starting salary for a recent Ph.D. is US\$52,000 and can vary somewhat according to the applicant's qualifications. Postdoctoral positions are awarded for a one-year period. Appointments may be renewed in one-year increments for a maximum addition of two years. Please send a letter describing research interests, a curriculum vitae, and a list of three references (with telephone numbers, Email, and postal addresses) to Dr. Paul F. Goldsmith, JPL, MS 180-703, 4800 Oak Grove Drive, Pasadena CA 91109-8099 USA; Tel: +1-818-393-0518 or email Paul.F.Goldsmith@jpl.nasa.gov, or, to Dr. William D. Langer, JPL, MS 180-500, 4800 Oak Grove Drive, Pasadena, CA 91109-8099; or email William.Langer@jpl.nasa.gov.

JPL and Caltech are equal opportunity/ affirmative action employers. Women, Minorities, veterans, and disabled persons are encouraged to apply.

No. 24846 (New)
Postdoctoral Fellow in Particle Astrophysics & Cosmology - Kavli Institute for Particle Astrophysics & Cosmology
KIPAC - KAVLI INSTITUTE FOR PARTICLE ASTROPHYSICS & COSMOLOGY
Tel:
URL1: <http://www-group.slac.stanford.edu/kipac> (Further information about KIPAC)
Email Inquiries: kipac-postdoc0809@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 new 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 two fellows during the initial search, with further appointments to follow. The positions offer excellent salary and benefits and a term of three years. The successful candidates will also receive an annual budget of \$10,000 to support research expenses. KIPAC is a joint venture between the Stanford Department of Physics and Stanford Linear Accelerator Center (SLAC). 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 using galaxy clusters and large galaxy surveys, probing inflation with Cosmic Microwave Background polarization experiments, searches for dark matter, and studies of black holes, galaxies, stars (including the sun) and other astrophysical sources. KIPAC is involved in a number of projects such as GLAST, CDMS, the BICEP, Planck, QUaD and QUIET CMB experiments, SNAP, LSST, NeXT and NuSTAR. 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. All applicants will be automatically considered for other 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/competition/apply.html> to submit your application. The deadline for receipt of all documents is December 1, 2008, 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 inquiries regarding these positions may be addressed to kipac-postdoc0809@stanford.edu or to any KIPAC faculty member, listed at <http://www-group.slac.stanford.edu/kipac/faculty.html>

No. 24848 (New)

**Lawrence Postdoctoral Fellowship
LAWRENCE LIVERMORE NATIONAL LABORATORY**

Tel:

URL1: <https://fellowship.llnl.gov>

Attention: Please apply online

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Lawrence Fellowship Program. This is a highly desirable, prestigious postdoctoral position with ample resources and freedom to conduct cutting-edge research in a field of the candidate's choice. The duration of the Fellowship is up to three years. Typically two to four openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL, from physics and astrophysics through biology. Particular areas of interest within astrophysics include laboratory astrophysics with high-energy-density lasers, adaptive optics, extrasolar planets, time-domain astronomy with large datasets, observational and experimental x-ray and gamma-ray astronomy, computational modeling of stellar evolution, studies of interstellar dust and planetary interiors, but outstanding candidates in any areas of physics or astrophysics are encouraged to apply. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The first year salary is \$8,092/mo.

Please refer to our web page <https://fellowship.llnl.gov> for eligibility requirements and instructions on how to apply. When applying and prompted, please mention where you saw this ad. The deadline for application is November 3, 2008. LLNL is operated by the Lawrence Livermore National Security, LLC, for the U.S. Department of Energy, National Nuclear Security Administration. We are an equal opportunity employer with a commitment to workforce diversity.

No. 24849 (New)

**2009 Giacconi Fellowship
SPACE TELESCOPE SCIENCE INSTITUTE**

Tel:

URL1: <http://www.stsci.edu/institute/org/spd/giacconi-fellowship/giacconi-fellow-overview> (*Instructions for uploading applications and letters of reference*)

Email Inquiries: gfinquiry@stsci.edu

Attention: (Applications should be submitted through given link)

2009 GIACCONI FELLOWSHIP

The Space Telescope Science Institute invites applications for the 2009 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 \$57,500, 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.

Applications must include the following materials: a cover letter, a curriculum vitae, a list of publications, a summary of previous and current research (limited to 3 pages), and a description of the proposed research to be carried out at STScI (also limited to 3 pages). These documents must be prepared as pdf files. Applicants must also arrange for three letters of reference to be sent as separate pdf files directly by their authors.

Instructions for uploading applications and letters of reference are posted at:

<http://www.stsci.edu/institute/org/spd/giacconi-fellowship/giacconi-fellow-overview> Applications and letters of reference received by Thursday, November 6, 2008 will receive full consideration. The offer of appointment will be made before February 1, 2009. The appointment is expected to begin on or about September 1, 2009. 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.

No. 24850 (New)

**2009 Hubble Fellowships
SPACE TELESCOPE SCIENCE INSTITUTE**

Tel:

URL1: <http://www.stsci.edu/institute/org/spd/hubble-fellowship/hubble-fellow-overview> (*Includes detailed program policies and application instructions*)

Email Inquiries: hfinquiry@stsci.edu

Attention: (Applications should be submitted through given link)

The Space Telescope Science Institute announces the continuation of the Hubble Postdoctoral Fellowship Program and solicits applications for fellowships to begin in the fall of 2009.

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, 2006, 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://www.stsci.edu/institute/org/spd/hubble-fellowship/hubble-fellow-overview>

Applicants must follow the instructions given in this Announcement. Inquiries about the Hubble Fellowships may be directed to Dr. Ron Allen (hfinquiry@stsci.edu).

The deadline for both applications and letters of reference is Thursday, November 6, 2008. Offers will be made before February 1, 2009, and new appointments are expected to begin on or about September 1, 2009.

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

No. 24851 (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 2008. Fellowships may be renewed for up to three years. Women and minority candidates are especially encouraged to apply. AAE/EOE.

No. 24852 (New)
Clay Postdoctoral Fellowship 2009
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 Submission Address: postdoc@cfa.harvard.edu
Email Inquiries: postdoc@cfa.harvard.edu

Attention: Fellowship Program Coordinator

Smithsonian Astrophysical Observatory Clay Postdoctoral Fellowship 2009

The Smithsonian Astrophysical Observatory invites applications for the 2009 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 2009–2010 will be approximately \$60,500 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, 2008. Offers will be made by December 19, 2008.

The SAO is an equal opportunity employer and prohibits employment discrimination on the basis of race, color, age, religion, sex, national origin, disability, sexual orientation, parental and/or marital status.

No. 24853 (New)
CFA Postdoctoral Fellowship 2009
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 2009

The Harvard-Smithsonian Center for Astrophysics invites applications for the 2009 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 2009–2010 will be approximately \$59,500 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, 2008, and September 1, 2009, will be considered.

Application forms and instructions are available at <http://www.cfa.harvard.edu/postdoc/>. Applications are due by October 30, 2008. Offers will be made by December 19, 2008.

The SAO is an equal opportunity employer and prohibits employment discrimination on the basis of race, color, age, religion, sex, national origin, disability, sexual orientation, parental and/or marital status.

No. 24855 (New)

Menzel Postdoctoral Fellow 2009

HARVARD UNIVERSITY

60 Garden Street, MS 67

Cambridge, MA 02138

USA

Tel: 617-495-7103

FAX: 617-496-7589

URL1: <http://www.cfa.harvard.edu/menzel>

Email Submission Address: postdoc@cfa.harvard.edu

Email Inquiries: postdoc@cfa.harvard.edu

Attention: Fellowship Program Coordinator

Department of Astronomy and Harvard College Observatory Menzel Postdoctoral Fellow 2009

The Department of Astronomy and Harvard College Observatory (HCO), at the Center for Astrophysics (CfA), announce the availability of the 2009 Donald H. Menzel Postdoctoral Fellow position in astrophysics. Candidates with an exceptional record of research in any field of astrophysics, particularly theory, are encouraged to apply.

The CfA combines the resources and research facilities of the Harvard College Observatory and the Smithsonian Astrophysical Observatory under a single director. 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 1 year, with renewal for a second and third year likely, contingent upon satisfactory progress. The salary for 2009-2010 will be \$60,500 with a research budget of \$16,000. Health benefits and relocation allowance are available.

Application forms and instructions are available at <http://www.cfa.harvard.edu/menzel/>

Applications are due by October 30, 2008. Offer will be made by December 19, 2008.

Harvard University is an Affirmative Action/Equal Opportunity Employer.

No. 24856 (New)

ESO Fellowship Programme 2008/2009

EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE (ESO)

Karl-Schwarzschild-Str. 2

Garching near Munich, Bavaria 85748

Germany

Tel: +49-89-3200-6205

FAX: +49-89-3200-6497

URL1: <http://www.eso.org/public/> (General ESO Webpage)

URL2: <https://jobs.eso.org/> (Recruitment Portal & Programme Description)

Email Submission Address: vacancy@eso.org

Email Inquiries: vacancy@eso.org

Attention: Mrs Lone Vedsoe Marschollek

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

With ALMA becoming operational in the near future, ESO also offers ALMA Fellowships to complement its regular fellowship programme. Applications by young astronomers with expertise in mm/sub-mm astronomy are encouraged.

For all fellowships, scientific excellence is the prime selection criterium. Young scientists from all astrophysical fields are welcome to apply.

The fellowships come in two flavours: Garching and Chile.

- In Garching fellowships start with an initial contract of one year followed by a two-year extension (three years total). Functional work (in instrumentation, operations, public relations, etc.) is strictly restricted to 25% of their time.

- In Chile, the fellowships are granted for one year initially with an extension of three additional years (four years total). During the first three years, fellows work 80 nights/year at one of the observatories and 35 days/year at the Santiago Office. The fourth year is free of duties and several options are provided, including the possibility of being hosted by another institution. For further information, please consult the web pages.

We offer a very attractive remuneration package including a competitive salary (tax-free) and comprehensive social benefits. We further provide financial support in relocating fellows and their families.

The application form (Recruitment Portal), as well as the list of further material to be submitted can be found at the above URLs. Letters of reference shall be submitted electronically to vacancy@eso.org by the deadline.

The closing date for applications is October 15, 2008.

No. 24858 (New)
Petascale Cosmology Fellowship
MCWILLIAMS CENTER FOR COSMOLOGY, CARNEGIE MELLON UNIVERSITY
Pittsburgh, PA 15232
USA
Tel: 412 268 2740
FAX: 412 268 0648
URL1: www.cmu.edu/cosmology (Cosmology at CMU)
Email Submission Address: rcroft@cmu.edu
Email Inquiries: tiziana@phys.cmu.edu

Attention: Mary Placeway

The McWilliams Center for Cosmology at Carnegie Mellon University invites applications for a four year postdoctoral position in computational cosmology. The position is funded by the NSF Petascale Simulations and Analysis (PetaApps) program and will involve the development and use of a petascale capable version of the cosmological simulation code "Gadget". The applicant will work with PI Tiziana Di Matteo, "Gadget" author Volker Springel (including visits to the Max Planck Institute for Astrophysics in Garching), Rupert Croft, Jeff Gardner, and scientists at the nearby Pittsburgh Supercomputing Center (PSC).

The project will involve both work on code development and analysis software as well as scientific research. The applicant will have the time and resources to develop a cutting edge research program in numerical cosmology.

Appointments are for 2 years, with renewal for a third and fourth years likely, contingent upon satisfactory progress.

The anticipated starting dates are or Jan 2009 or Fall 2009, although other dates will be considered. Candidates should submit a curriculum vitae, publication list, statement of research interests and arrange for three letters of recommendation to be sent to

Petascale Cosmology Search, Department of Physics, Carnegie Mellon University, Pittsburgh, PA 15213 or by email to Mary Placeway, placeway@andrew.cmu.edu.

For further information on Cosmology at Carnegie Mellon, please see www.cmu.edu/cosmology

Please address any questions about the position to Prof. Tiziana Di Matteo, tiziana@phys.cmu.edu

For full consideration, all materials should be received by October 15, 2008.

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

No. 24860 (New)
Prize Postdoctoral Position in Theoretical Astrophysics
UNIVERSITY OF MARYLAND COLLEGE PARK
Department of Astronomy
Rm. 1204 CSS Building
College Park, MD 20742
USA
Tel:
URL1: <http://www.astro.umd.edu/ctc/>
Email Submission Address: ctc-postdoc@astro.umd.edu
Email Inquiries: ctc-postdoc@astro.umd.edu

Attention: Prof. Derek Richardson, Chair, CTC Post-Doc Search

Applications are invited for a Prize Postdoctoral Position in Theoretical Astrophysics at the Department of Astronomy, University of Maryland, College Park. Established in 2006, this postdoctoral program is connected with the Maryland Astronomy Center for Theory and Computation whose faculty maintain active research programs in the areas of cosmology and galaxy formation, high-energy astrophysics (including compact object physics), the astrophysics of the interstellar medium and star formation, and planetary/solar-system dynamics. Candidates with a strong background in these fields, but particularly planetary/solar-system dynamics for this cycle, are encouraged to apply. The successful candidate must have a Ph.D. in Physics, Astronomy, or a related field by the start date of the appointment. The appointment term is three years. A Fall 2009 start date is envisaged, but earlier dates are also possible.

To apply, please send a CV, publication list, and statement of research interests to the above e-mail address by December 31, 2008 (PDF format preferred). Candidates must also arrange for three letters of recommendation to be sent to the same e-mail address by this date. Applicants for this position may also be considered for other postdoctoral positions in the Astronomy Department at Maryland. For further information, please contact Prof. Derek Richardson at the above e-mail address. AAE/EOE.

No. 24863 (New)
Post Doctoral
SPACE TELESCOPE SCIENCE INSTITUTE
Tel:
URL1: <http://www.stsci.edu/institute/employment> (Employment Link)
Email Inquiries: tumlinson@stsci.edu

Attention: (Applications should be submitted through given link)

Applications are invited for a postdoctoral fellowship in galaxy formation and intergalactic medium studies at the Space Telescope Science Institute. The successful applicant will work with Jason Tumlinson, Kenneth Sembach, and their collaborators to map the gaseous structure of galaxy halos and understand their role in the formation of galaxies. The fellow will bear primary responsibility for reducing and analyzing a large sample of QSO absorption-line spectroscopic data from the Cosmic Origins Spectrograph (COS) on HST, and will also participate in the interpretation and theoretical modeling of this dataset with our team of observational and theoretical collaborators. The fellow will also have the opportunity to pursue independent research projects. Qualified applicants must have a Ph.D. in astronomy or a closely related field. Experience with analyzing and interpreting spectroscopic data from ground-or space-based instruments is essential; experience with or interest in the theoretical interpretation of such data using physical and numerical models is highly desirable. We are also seeking an applicant that will integrate well into our team of co-investigators and with other staff scientists and postdocs at STScI with related interests.

The start date of the appointment is flexible, but should be no later than September 2009; earlier dates are preferred. The initial appointment will be for two years, with a possible third year subject to funding availability, good performance, and mutual agreement.

STScI, located on the campus of the Johns Hopkins University in Baltimore, Maryland, offers a dynamic and stimulating scientific work environment, competitive salaries, and an excellent benefits package. Financial and logistical assistance for relocation to the Baltimore area is available. STScI's pay scale is commensurate with year of Ph.D.

Requirements: Applicants are requested to complete an online application at <http://www.stsci.edu/institute/employment> and upload into the "Resume Upload" Section: CV, list of publications, and a short description of research interests, accomplishments, and long-term goals. In addition, please arrange to have three confidential letters of recommendation sent to Jason Tumlinson (tumlinson@stsci.edu). Further questions about the position may also be sent to this address. Completed applications received by January 15, 2009 are assured of full consideration. EEO/AA/M/F/D/V

No. 24865 (New)
Postdoctoral Research Fellow
EAST TENNESEE STATE UNIVERSITY
Box 70652
Physics and Astronomy
Johnson City, TN 37614
USA
Tel: 423 439-6904
FAX: 423 439-6905
URL1: <http://www.etsu.edu/humanres/EmployOppAdmin.htm> (Job posting at ETSU)
URL2: <http://www.etsu.edu/physics/> (ETSU Physics and Astronomy)
URL3: <http://www.physics.du.edu/> (U of Denver Physics and Astronomy)
Email Submission Address: ignace@etsu.edu
Email Inquiries: ignace@etsu.edu

Attention: Richard Ignace, Associate Professor

The Postdoctoral Research Fellow (PDRF) will be working with Richard Ignace under a grant awarded by the NSF entitled "Tracing the Spectropolarimetric History of Circumstellar Structures from High-Mass Stars through Supernovae". The PDRF will also work closely with co-PI Jennifer Hoffman at the University of Denver. The research effort is primarily theoretical in nature involving computational radiative transfer and polarization; however, there is the expectation that the PDRF will be involved with obtaining and interpreting spectropolarimetric data as well. Experience with polarization and radiative transfer or other numerical modeling is preferred, along with an interest in massive stars, stellar winds, and/or supernovae. The starting salary will be \$38,000 plus benefits, and the PDRF can have PI status on their own proposal submissions. The earliest starting date is December 1st, 2008. The candidate must have a PhD in Astronomy, Physics, or Math by the time of hire, and the position is for one year initially, but renewable for up to two more years. To apply, submit by email (pdf attachment), fax, or mail a curriculum vitae, including publication list, and contact information for three references to Richard Ignace using the email/address above. Consideration of applications will begin November 1st.

No. 24867 (New)
Postdoctoral Research Position in Star and Planet Formation
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: kluhman@astro.psu.edu
Email Inquiries: kluhman@astro.psu.edu

Attention: Dr. Kevin Luhman, Assistant Professor of Astronomy

One postdoctoral research position in star and planet formation is available in the Department of Astronomy and Astrophysics at the Pennsylvania State University. The successful applicant will work with Dr. Kevin Luhman on the analysis and interpretation of optical and infrared data from the Spitzer Space Telescope, Hubble Space Telescope, and large ground-based telescopes in studying the formation of stars, brown dwarfs, and planets. A PhD is required. The initial appointment will be for one year, renewable to a total of three years upon satisfactory performance, and can begin as early as August 1, 2009. Applicants should submit electronic applications (pdf, postscript, or text) containing a curriculum vitae, list of publications, brief statement of research interests and experience, and contact information for three references to kluhman@astro.psu.edu. Review of the applications will begin immediately and continue until the position is filled.

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

No. 24868 (New)
Postdoctoral Research Position in Extrasolar Planets and Experimental Astronomy
CORNELL UNIVERSITY
228 Space Sciences Building
Dept. of Astronomy
Ithaca, NY 14853
USA
Tel: 607-255-4805
FAX: 607-255-5875
Email Submission Address: LM19@cornell.edu

Email Inquiries: lm19@cornell.edu

Attention: Laurie McCall, Executive Staff Assistant

The Infrared Astronomy group at Cornell University invites applications for a postdoctoral position in high contrast imaging, extrasolar planets and experimental astronomy with Professor James Lloyd.

The successful applicant is expected to play a leading role in the development of aperture masking interferometry with adaptive optics for high contrast imaging, particularly focused on spatially filtered aperture masking interferometry. Additional opportunities for research with a newly commissioned infrared radial velocity spectrometer, T-EDI on the Palomar 200" telescope. T-EDI was commissioned in December 2007 and will begin a survey of M dwarfs for planets through precision radial velocity Doppler measurements. Candidates familiar with data analysis techniques, software development, radial velocity planet survey methods and externally dispersed interferometry or Fourier transform spectroscopy methods are encouraged to apply.

Candidates are expected to conduct independent research and will also have access to Cornell associated facilities (such as Palomar and Arecibo observatories) and benefit from stimulating scientific interactions within the Department of Astronomy (<http://www.astro.cornell.edu>).

We are interested in innovative individuals with a strong background in astronomy, instrumentation, adaptive optics or interferometry. A Ph.D. in astronomy, physics, or a closely related field is required. The appointment will initially be for two years, with possible extensions dependent on available funding. Competitive salary will depend on experience.

To apply, please send a copy of your vita, research interests and the names of three individuals who are willing to write reference letters to Ms. Laurie McCall, Cornell University, 228 Space Sciences Building, Ithaca, NY 14853. Applications via email to lm19@cornell.edu are encouraged. For further questions, please contact James Lloyd jpl@astro.cornell.edu. For full consideration applications should be received by October 1, but will be reviewed up until the positions are filled. Cornell University is an Equal Opportunity/ Affirmative Action Employer.

No. 24869 (New)

NASA Postdoctoral Program - Protostellar Disks

JET PROPULSION LABORATORY (JPL)

4800 Oak Grove Drive

Pasadena, CA 91109-8099

USA

Tel: 1-818-393-0049

Email Submission Address: neal.turner@jpl.nasa.gov

Attention: Dr. Neal Turner

The NASA Postdoctoral Program (NPP) at the Jet Propulsion Laboratory (JPL) invites applications for a postdoctoral fellowship position in JPL's Space and Astrophysical Plasmas Group.

The research will involve numerical modeling of the environment for planet formation in protostellar disks, including key processes such as the transfer of mass, angular momentum and energy and the reprocessing of the primordial material through heating, chemical reactions and the growth of solid bodies. Dr Neal Turner, Research Scientist in the group, will serve as JPL postdoctoral advisor to the selected candidate. The position can also be seen on the NPP website <https://www2.orau.gov/nasacatalog/Listing.aspx?Opportunity=18361>. The appointee will be guided by the JPL advisor to ensure that the research work will result in publications in the open literature.

Candidates should have a recent Ph.D. in the physical sciences with a strong background in numerical modeling. Experience with accretion disks, MHD, chemical kinetics, grain coagulation physics or radiative transfer is desirable. The appointment is contingent upon evidence of completion of a Ph.D. The annual starting salary for a recent Ph.D. is US\$52,000 and can vary somewhat according to the applicant's qualifications. Fellowship positions are awarded initially for a one-year period and may be renewed in one-year increments for a maximum of two additional years.

Please send a letter describing your research interests, a curriculum vitae, and a list of three references (with telephone numbers and postal and e-mail addresses) to

Dr Neal Turner Jet Propulsion Laboratory, MS 169-506 4800 Oak Grove Drive, Pasadena CA 91109-8099, USA Tel: +1-818-393-0049 or E-mail: neal.turner@jpl.nasa.gov

For further application and eligibility requirements, and to officially apply for the position, please visit the NASA Postdoctoral Program website at <http://nasa.orau.org/postdoc/potential/appinfo.htm>

JPL is an equal opportunity/affirmative action employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

No. 24874 (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: Lisa Rowan

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 together 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, Chris Stubbs and Matias Zaldarriaga, as well as SAO scientists Rosanne Di Stefano, Matt Holman and Mike Lecar. The nominal starting date is September 2009, 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 November 26, 2008. For additional information please email: itcpostdoc@cfa.harvard.edu. Women and minorities are strongly encouraged to apply. AAE/EOE.

No. 24875 (New)

Postdoctoral Position in Computational Cosmology

YALE UNIVERSITY

260 Whitney Avenue

P.O. Box 208121

New Haven, CT 06520-8121

USA

Tel: 203-432-5370

FAX: 203-432-3824

URL1: <http://www.yale.edu/vcaa> (Yale Center for Astronomy & Astrophysics)

URL2: <http://www.yale.edu/physics> (Yale University Physics Department)

URL3: <http://www.astro.yale.edu> (Yale University Astronomy Department)

Email Submission Address: daisuke.nagai@yale.edu

Email Inquiries: daisuke.nagai@yale.edu

Attention: Daisuke Nagai, Assistant Professor

Postdoctoral Position in Computational Cosmology - Yale University The Yale Center for Astronomy and Astrophysics invites applications for a postdoctoral research associate position in computational cosmology. The successful candidate will work with Dr. Daisuke Nagai on various aspects of theoretical and computational modeling of galaxy clusters and comparisons of models with observations. The initial appointment is for two years, renewable for a third, and offers competitive salary and benefits. The start date is negotiable and could be as early as March 2009. Applicants should have a Ph.D. in physics, astronomy, or related field by date of appointment. Previous experience in theoretical modeling, high-performance computing, numerical simulations, and their analysis is highly desirable. Conveniently located between New York City and Boston, Yale offers a world-class intellectual environment and access to front-line astronomical facilities, including the WYAN, the SMARTS telescopes, Chilean telescopes (through collaboration with the Univ. de Chile), and the Palomar-QUEST survey. The successful candidate will have time to execute research of their own, with preference given to those that complement the larger program. Applicants should send their curriculum vitae, a list of publications, a brief description of the anticipated research program by December 1, 2008 to receive full consideration. Email submissions are encouraged. Candidates should also arrange for at least 3 letters of recommendation to be sent directly to the same address by December 1, 2008. Yale University is an Affirmative Action/Equal Opportunity Employer, and we particularly encourage applications from women and members of minority groups.

No. 24881 (New)

Henry Norris Russell Postdoctoral Fellowship in Astrophysics

PRINCETON UNIVERSITY

Tel:

URL1: www.astro.princeton.edu/postapp09.php (Web submission)

URL2: www.astro.princeton.edu (Department website)

Email Inquiries: postapp09@astro.princeton.edu

Attention: Henry Norris Russell Postdoctoral Fellowship in Astrophysics, Web submissions only

The Department of Astrophysical Sciences, Princeton University invites applications for the Henry Norris Russell Postdoctoral Fellowship in Astrophysics. The Russell Fellow is expected to carry out original research in observational astrophysics, independently or in collaboration with Princeton faculty, postdoctoral fellows and students. Exceptional candidates in all areas of astrophysics are encouraged to apply. The fellowship includes a substantial annual research fund.

Department faculty and researchers 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 dust, interstellar medium), Jeremy Goodman (dynamics, gamma-ray bursts, accretion disks, scintillation), J. Richard Gott (cosmology, general relativity), James Gunn (cosmology, large-scale structure, astronomical instrumentation), Edward Jenkins (ultraviolet astronomy, interstellar and intergalactic medium), Gillian Knapp (stars, brown dwarfs, interstellar medium), Russell Kulsrud (primordial magnetic fields, plasma physics), Robert Lupton (data analysis, statistical methods, precision photometry), Jeremiah P. Ostriker (formation and evolution of galaxies and large-scale structure), Roman Rafikov (planet formation, planetary dynamics), David Spergel (CMB, particle astrophysics, cosmology, galaxy dynamics, planets), Anatoly Spitkovsky (neutron stars, relativistic MHD), James Stone (MHD, star formation), Michael Strauss (large-scale structure, quasars), and Edwin Turner (gravitational lenses, planets), as well as 15-20 postdoctoral fellows, and strong research groups in the Physics Department and at the nearby Institute for Advanced Study. Appointments are for one year, renewable annually based on satisfactory performance, for a total of up to three years. The expected starting date is September 1, 2009.

Applicants should apply via the web at: www.astro.princeton.edu/postapp09.php, and arrange to have three letters of recommendation sent to postapp09_rec_letter@astro.princeton.edu (references should include applicant's full name in subject) by December 1, 2008. Only web submissions will be considered. All applications will automatically be considered for all postdoctoral fellowships available in the department, but please state which positions you are interested in. For information about voluntary self-identification, please link to: http://www.princeton.edu/dof/about_us/dof_job_openings. EEO/AEE

No. 24882 (New)

Lyman Spitzer, Jr. Postdoctoral Fellowship in Astrophysics

PRINCETON UNIVERSITY

Tel:

URL1: www.astro.princeton.edu/postapp09.php (Web submission)

URL2: www.astro.princeton.edu (Department website)

Email Inquiries: postapp09@astro.princeton.edu

Attention: Lyman Spitzer, Jr. Postdoctoral Fellowship in Astrophysics

The Department of Astrophysical Sciences, Princeton University, invites applications for the Lyman Spitzer, Jr. Postdoctoral Fellowship in Astrophysics. The Spitzer Fellow is expected to carry out original research in astrophysics, independently or in collaboration with Princeton faculty, postdoctoral fellows and students. The fellowship is intended primarily to support researchers in theoretical astrophysics, but exceptional candidates in observational astronomy are encouraged to apply as well. The fellowship includes a substantial annual research fund.

Princeton astronomers with research interests in theoretical astrophysics 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 dust, interstellar medium), Jeremy Goodman (dynamics, gamma-ray bursts, accretion disks, scintillation), J. Richard Gott (cosmology, general relativity), James Gunn (cosmology, large-scale structure), Russell Kulsrud (primordial magnetic fields, plasma physics), Jeremiah P. Ostriker (formation and evolution of galaxies and large-scale structure), Roman Rafikov (planet formation, planetary dynamics), David Spergel (CMB, particle astrophysics, cosmology, galaxy dynamics, planets), Anatoly Spitkovsky (neutron stars, relativistic MHD), James Stone (MHD, star formation), and 15-20 postdoctoral fellows and associate research scholars. There are also strong research groups in the Physics Department and at the nearby Institute for Advanced Study. Appointments are for one year, renewable annually based on satisfactory performance, for a total of up to three years. The expected starting date is September 1, 2009.

Applicants should apply via the web at: www.astro.princeton.edu/postapp09.php, and arrange to have three letters of recommendation sent to postapp09_rec_letter@astro.princeton.edu (references should include applicant's full name in subject) by December 1, 2008. Only web submissions will be considered. All applications will automatically be considered for all postdoctoral fellowships available in the department, but please state which positions you are interested in. For information about voluntary self-identification, please link to: http://www.princeton.edu/dof/about_us/dof_job_openings. EEO/AEE

No. 24883 (New)

Astronomical Software Scientist

PRINCETON UNIVERSITY

www.astro.princeton.edu/postapp09.php

Tel:

URL1: www.astro.princeton.edu/postapp09.php (Web submission)

URL2: www.astro.princeton.edu (Department website)

Email Inquiries: postapp09@astro.princeton.edu

Attention: *Astronomical Software Scientist*

The Department of Astrophysical Sciences, Princeton University, expects to have one or more positions in the area of software development and support for the acquisition, reduction, analysis, and testing of photometric and spectroscopic data from very large surveys. The successful applicant will be working with a group including Drs. Jim Gunn, Michael Strauss, Jill Knapp, and Robert Lupton.

The Department is a member of the Sloan Digital Sky Survey (SDSS-III), a multi-institution project which is carrying out wide-area imaging and spectroscopic surveys with a dedicated 2.5-meter telescope and of the Large Synoptic Survey Telescope (LSST) consortium, which is building a dedicated 8.4-meter telescope to carry out a 20,000 square degree multi-band and multi-epoch imaging survey. Strauss and Lupton are heavily involved in scientific, management, and technical aspects of the LSST project. The Department is also collaborating with the National Astronomical Observatory of Japan to carry out deep, high-resolution, wide-area imaging surveys to study galaxy evolution and weak lensing with large-format cameras on the Subaru 8.2 meter telescope on Mauna Kea, Hawaii.

Software development and support for these projects will include work on algorithm development (e.g. the determination of Point Spread Functions; optimal processing of multi-epoch, multi-band data; and spectrophotometry with fiber spectrographs); design and implementation of application class libraries; and automated testing of software (examining the performance and scientific reliability of algorithms, as well as unit and regression testing of complex software systems).

We seek persons with five or more years of experience with scientific computing and a PhD or Masters in astrophysics or a related field. The candidates should have knowledge of optical astronomy at faint levels, CCD data, handling of large data sets, efficient automated data reduction, and/or image and spectroscopic analysis. The job(s) include algorithm development; evaluating the scientific performance of pipeline code; writing robust, efficient code (primarily on Unix platforms in C/C++); and running and maintaining pipeline code. Experience in python, software engineering practices, and astronomical instrumentation is desirable. The appointment(s) are subject to funding, and will be made to the scientific or technical staff at a level and salary commensurate with experience, for an initial period of one year which can be renewed for one or more years depending on satisfactory performance and availability of funding.

Applicants should apply via the web at: www.astro.princeton.edu/postapp09.php and arrange to have three letters of recommendation sent to postapp09_rec_letter@astro.princeton.edu (references should include applicant's full name in subject) by December 1, 2008. All applications received by December 1, 2008 will be fully considered, but applications will continue to be accepted until the position is filled. Only web submissions will be considered. All applications will automatically be considered for all postdoctoral fellowships available in the department, but please state which positions you are interested in. For information about voluntary self-identification, please link to: http://www.princeton.edu/dof/about_us/dof_job_openings. EEO/AAE

No. 24884 (New)

Postdoctoral Position in Supernova Theory

PRINCETON UNIVERSITY

www.astro.princeton.edu/postapp09.php

Tel:

URL1: www.astro.princeton.edu/postapp09.php (Web submission)

URL2: www.astro.princeton.edu (Department website)

Email Inquiries: burrows@astro.princeton.edu

Attention: *Postdoctoral Position in Supernova Theory*

The Department of Astrophysical Sciences, Princeton University, invites applications to fill one or more postdoctoral research positions in the theory of supernovae, with a focus on the mechanisms of explosion, numerical radiation-hydrodynamics, and nuclear astrophysics. Candidates with a strong background in Astrophysics, Physics, Astronomy, and Computational Science will be seriously considered. Exceptional computational resources, opportunities for collaboration, and ample research and travel funds will be available to the successful candidate(s). The successful candidate(s) will work with Adam Burrows. Appointments are for one year, renewable annually based on satisfactory performance and subject to funding, for a total of up to three years. The expected starting date is September 1, 2009, though earlier starting dates can be accommodated and are not discouraged.

Applicants should apply via the web at: www.astro.princeton.edu/postapp09.php, and arrange to have three letters of recommendation sent by December 1, 2008 to postapp09_rec_letter@astro.princeton.edu (references should include applicant's full name in the subject line). Only web submissions will be considered. All applications will automatically be considered for all postdoctoral positions available in the department, but please state which positions you are interested in. For further inquiries, contact Adam Burrows (burrows@astro.princeton.edu). For information about voluntary self-identification, link to: http://www.princeton.edu/dof/about_us/dof_job_openings. EEO/AAE

No. 24885 (New)

Postdoctoral Position in Astrophysical Plasma Theory and Simulation

PRINCETON UNIVERSITY

www.astro.princeton.edu/postapp09.php

Tel:

URL1: www.astro.princeton.edu/postapp09.php (Web submission)

URL2: www.astro.princeton.edu (Department website)

Email Inquiries: anatoly@astro.princeton.edu

Attention: *Postdoctoral Position in Astrophysical Plasma Theory and Simulation*

The Department of Astrophysical Sciences, Princeton University, invites applications for a postdoctoral research position in astrophysical plasma theory and simulation. The successful candidate will work with Prof. Anatoly Spitkovsky on applications of particle-in-cell plasma simulation methods to astrophysical problems, including the physics of collisionless shocks, particle acceleration and pulsar magnetospheres. A strong background in astrophysics, plasma physics, computational science and parallel computing is preferred. The successful candidate will have access to state-of-the-art computational facilities, opportunities for collaboration and a travel fund. Appointments are for one year, renewable annually based on satisfactory performance and subject to funding, for a total of up to three years. The expected starting date is September 1, 2009 or earlier.

Applicants should apply via the web at: www.astro.princeton.edu/postapp09.php, and arrange to have three letters of recommendation sent by December 1, 2008 to postapp09_rec_letter@astro.princeton.edu (references should include applicant's full name in the subject line). Only web submissions will be considered. All applications will automatically be considered for all postdoctoral positions available in the department, but please state which positions you are interested in. For further inquiries, contact Anatoly Spitkovsky (anatoly@astro.princeton.edu). For information about voluntary self-identification, link to: http://www.princeton.edu/dof/about_us/dof_job_openings. EEO/AAE

No. 24886 (New)

Bolton Fellow - Astrophysics
AUSTRALIA TELESCOPE NATIONAL FACILITY, CSIRO
Tel:
URL1: <https://recruitment.csiro.au/asp/index.asp> (*Applications and More Information*)
URL2: www.atnf.csiro.au (*ATNF website*)
URL3: www.csiro.au (*CSIRO website*)
Email Inquiries: Robert.Braun@csiro.au

Attention: <https://recruitment.csiro.au/asp/index.asp>

Applications are invited for the Bolton Fellowship, a three year post-doctoral appointment at the ATNF, Australia's premier radio astronomical facility. Bolton Fellows are encouraged to undertake research and/or development in any area relevant to ATNF observational capabilities.

Bolton Fellowships may be held at any of the major ATNF locations: the Sydney Headquarters at the Radiophysics Laboratory, the Parkes 64m telescope, or the Narrabri Compact Array. The Parkes telescope has receivers that operate in bands between 70cm and 12mm, including multibeam receivers at 20-cm and 6 GHz. The AT Compact Array (ATCA) has a 6km east-west baseline with a 214m north-south spur and operates in seven bands between 20cm and 3mm; a new 2GHz broad-band correlator will be commissioned in 2008. The Mopra 22-m telescope is now remotely operated; its 8GHz broad-band correlator allows astronomers to observe multiple spectral lines in, eg., the 3mm window (83 to 118 GHz). The ATNF is also working on strategic Square Kilometre Array (SKA) research and is currently developing the Australian SKA Pathfinder (ASKAP) based on wide field focal plane arrays.

Applicants must have (or will shortly satisfy the requirements for) a PhD degree in astronomy, astrophysics or related disciplines.

A discretionary research allowance of about \$24K over the three-year term will be available to the successful candidate together with assistance with relocation and other benefits.

This is a 3 year appointment. Applications close: 31 October 2008 For essential information and details on how to apply, please visit Job Reference 2008/915 at: www.csiro.au/careers

No. 24890 (New)
IRAM Astronomy Postdoctoral Position in Granada, Spain
INSTITUT DE RADIO ASTRONOMIE MILLIMÉTRIQUE
300 rue de la Piscine
France
Tel: +33-476-824906
FAX: +33-476-515938
URL1: www.iram.fr
Email Submission Address: cox@iram.fr
Email Inquiries: cox@iram.fr

Attention: *Pierre Cox*

Applications are invited for a post-doctoral astronomer at IRAM Granada/Spain, starting as soon as possible.

IRAM is an international research organisation for millimeter/submillimeter astronomy supported by the CNRS (France), the Max-Planck Gesellschaft (Germany) and the IGN (Spain). IRAM operates two of the largest and most technologically advanced instruments in the world, a 30-meter single-dish telescope located 50km from Granada in the Sierra Nevada at an altitude of 2900 m, and an interferometer of six 15-meter antennas located at Plateau de Bure in the French Alps near Grenoble.

We are seeking for candidates with a PhD in astronomy and preferably demonstrated observational experience with millimeter / submillimeter astronomical facilities using bolometers and heterodyne receivers. Knowledge in some areas related to software or hardware of a millimeter telescope is of advantage. The successful candidate is expected to participate in the astronomical operations of the 30m and to conduct his own research objectives, also in collaboration with IRAM astronomers and/or outside groups. Priority will be given to candidates whose interests cover current areas of research at IRAM.

The successful candidate will be expected to contribute 50% of the time to

- play a leading role in programming and managing pooled observations, in particular those done using the bolometer camera, and the associated data bases and web pages. Knowledge of MySQL data base programming using Python or PHP is an asset. - participation in the astronomer-on-duty service. Staff astronomers typically spend about one week every two months at the observatory aiding visiting astronomers to conduct the observations and providing expertise in the analysis and interpretation of 30m data.

The appointment is initially for two years with the possibility of extension, and could start as early as October 01, 2008. To apply, please send curriculum vitae, bibliography, and statement of research interests, and arrange for three letters of reference. Applications should be submitted no later than September 30, 2008 for full consideration.

No. 24891 (New)
Postdoctoral Fellowship in Astrophysics
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: research.amnh.org/astrophysics (*Department home page*)
URL2: http://rggs.amnh.org/pages/academics_and_research/fellowship_opportunities (*Museum Fellowship program*)
Email Submission Address: gking@amnh.org
Email Inquiries: mordecai@amnh.org

Attention: *Gwendolyn 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.

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. Paper documents are acceptable, but not preferred. 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 Fellowships committee. The Museum is an equal opportunity employer.

No. 24892 (New)

Postdoctoral Position in High Energy Astrophysics

UNIVERSITY OF IOWA

214 Van Allen Hall

University of Iowa

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 has an opening for a postdoctoral research scholar to work in high-energy astrophysics in collaboration with Prof. Philip Kaaret beginning in late 2008 or early 2009. The successful applicant will work on the analysis of data from on-going programs to study black hole X-ray binaries and ultraluminous X-ray sources using Chandra and XMM-Newton and may also participate in the VERITAS gamma-ray observatory. Candidates must hold a Ph.D. in physics or astronomy and have experience with X-ray data analysis. Experience in the development of detectors for ionizing radiation or with data analysis at other wavelengths would be a plus. The appointment will be for one year initially and will likely be renewed for additional years dependent on performance and continued funding. 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. Applicants should also make arrangements for three letters of recommendation to be sent directly. Electronic submissions in pdf format only are acceptable. Letters of recommendation can be sent via e-mail. Review of applications will begin on November 1st, 2008, and continue until the position is filled. Women and members of minority groups are strongly encouraged to apply.

No. 24894 (New)

POSTDOCTORAL POSITION - GAMMA-RAY BURST AND TRANSIENT ASTRONOMY

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: dfox@astro.psu.edu

Email Inquiries: dfox@astro.psu.edu

Attention: Dr. Derek Fox, Assistant Professor of Astronomy

POSTDOCTORAL POSITION - GAMMA-RAY BURST AND TRANSIENT ASTRONOMY

A postdoctoral research position in gamma-ray burst and transient astronomy is available in the Department of Astronomy and Astrophysics at the Pennsylvania State University. The successful applicant will work with Dr. Derek Fox on gamma-ray burst and afterglow observations using satellite observatories and ground-based telescopes, and pursue optical transient survey and follow-up work in collaboration with the Palomar Transient Factory (PTF) team. A PhD by start of the appointment is required; experience with automated systems and control software is preferred. The initial appointment will be for two years, renewable to a total of three years, and beginning as early as May 1, 2009. Applicants should submit electronic applications (PDF, Postscript, or text) including a curriculum vitae, list of publications, a brief statement of research interests and experience, and contact information for three references to dfox@astro.psu.edu. Review of applications will begin on October 15, 2008, and continue until the position is filled.

We encourage applications from individuals of diverse backgrounds. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No. 24896 (New)

Carnegie Postdoctoral Research Fellowship in Astronomy

CARNEGIE OBSERVATORIES

813 Santa Barbara Street

Pasadena, CA 91101

USA

Tel: 626-304-0257

FAX: 626-795-8136

URL1: <http://www.ociw.edu/fellowships>

Email Submission Address: cfellow@ociw.edu

Email Inquiries: cfellow@ociw.edu

Attention: Dr. John Mulchaey, Chair, Fellowship Committee

We invite applications for The Carnegie Fellowship at the Carnegie Observatories in Pasadena, California, to begin September 2009.

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 December 1, 2008. 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.

No. 24898 (New)
Postdoctoral Research Opportunities in High Energy Gamma-Ray Astrophysics
GODDARD SPACE FLIGHT CENTER
Tel:

Attention: Dr. Steve Ritz

The GLAST group at Goddard Space Flight Center is seeking postdoctoral researchers with an interest in high-energy gamma-ray astrophysics.

GLAST is a high-energy gamma-ray mission which launched in June 2008. The main instrument, the Large Area Telescope (LAT), studies the sky from 20 MeV to over 300 GeV, opening a new and important window on a wide variety of high energy phenomena, including active galaxies, the optical-UV extragalactic background light, pulsars, gamma-ray bursts, and searches for new phenomena such as signatures of particle dark matter. A second instrument, the GLAST Burst Monitor (GBM), provides important spectral and timing information of gamma-ray bursts in the 8 keV to 30 MeV range.

As part of the LAT collaboration, Goddard is involved in the development, management and science analysis of the LAT. Goddard is also the overall mission management center and hosts the science support center and mission operations center. The successful candidate will have many opportunities to pursue all the above science analysis topics, including multiwavelength studies.

Postdoctoral applications should be pursued through the NASA postdoctoral fellowship program (NPP). The NPP Fellowship appointment, initially for one year and may be renewed for up to a total of three years. Appointments come with competitive stipends and a generous travel budget. The application deadline is November 1.

For more details, please visit the program website (<http://nasa.orau.org/postdoc>) and contact Steve Ritz (steve.ritz@nasa.gov), Neil Gehrels (gehrels@gsfc.nasa.gov), Dave Thompson (David.J.Thompson@nasa.gov) and/or Julie McEnery (julie.e.mcenery@nasa.gov).

No. 24899 (New)
PLASKETT FELLOWSHIP
NATIONAL RESEARCH COUNCIL CANADA (NRC)
Dominion Astrophysical Observatory (DAO)
5071 W. Saanich Road
Victoria, BC V9E 2E7
Canada
Tel: 250-363-3436
FAX: 250-363-8766
URL1: <http://plaskett.hia.nrc.gc.ca>
Email Inquiries: plaskett@nrc.gc.ca

Attention: Human Resources Systems Coordinator

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 2009. Applications should be made by 15 November 2008, 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. 24900 (New)
James Webb Space Telescope Postdoctoral Fellowships at NASA's Goddard Space Flight Center
NASA'S GODDARD SPACE FLIGHT CENTER
P.O. Box 117
Building SC-200, 1299 Bethel Valley Road
Oak Ridge, Tennessee 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. This year we are particularly interested in applicants to work on integrated field unit (IFU) spectroscopic data analysis techniques and modeling of IFU data for diffuse nebulae and supernova remnants; or coronagraphic observations of debris disks and the study of transiting

exoplanets focusing on surveys or spectroscopic characterization. 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, 2008. 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. 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. 24901 (New)

Joint Postdoctoral Fellowship Carnegie Observatories and Princeton University
CARNEGIE OBSERVATORIES AND PRINCETON UNIVERSITY
813 Santa Barbara Street
Pasadena, CA 91101
USA
Tel: 626-304-0257
FAX: 626-795-8136
URL1: <http://www.ociw.edu/fellowships>
URL2: <http://www.astro.princeton.edu/postapp09.php>
Email Submission Address: c-pfellow@ociw.edu
Email Inquiries: c-pfellow@ociw.edu

Attention: John Mulchaey, Chair, Fellowship Committee

Joint Postdoctoral Fellowship Carnegie Observatories and Princeton University

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, 2009. The Fellow is expected to work for two years in Princeton and two years at the main offices of the Observatories in Pasadena. The timing of these stays will be negotiated by the Fellow and the host institutions once the position is offered.

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 and the Atacama Cosmology Telescope, and, together with research groups in the Physics Department and the nearby Institute for Advanced Study, 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://www.astro.princeton.edu/postapp09.php> by December 1, 2008. The research plan should address how the applicant intends to use the resources and facilities available at both host institutions. Preference for a starting host institution and the proposed timing of the stays at each institution should also be stated. 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 application 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 and the Astrophysical Sciences department at Princeton via e-mail: c-pfellow@ociw.edu AND postapp09_rec_letter@astro.princeton.edu

No. 24902 (New)

Harlan J. Smith 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>
URL2: <http://www.as.utexas.edu/mcdonald/jobs/jobs.html>
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 Harlan J. Smith Postdoctoral Fellowship. This Fellowship is restricted to new Ph.D. graduates without previous postdoctoral experience. The applicant's research interest may be in any field of astronomy. 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 2009, 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.

Applicants 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 3, 2008. EOE/AEE.

No. 24903 (New)

Postdoc position in Marseille at CPPM
CENTRE DE PHYSIQUE DES PARTICULES DE MARSEILLE
163, avenue de Luminy

Marseille, Provence 13288

France

Tel: +33 4 91 05 59 88

FAX: +33 4 91 66 18 55

URL1: <http://marwww.in2p3.fr/renoir/> (RENOIR Research team)

URL2: <http://www.oamp.fr/cosmology/> (Cosmology group at LAM)

URL3: <http://www.cpt.univ-mrs.fr/> (Centre de Physique Théorique)

Email Submission Address: ealet@cprm.in2p3.fr

Email Inquiries: ealet@cprm.in2p3.fr, jean-paul.kneib@oamp.fr

Attention: Anne Ealet, Dr

The research group RENOIR at CPPM (Centre de Physique des particules de Marseille) focuses on understanding dark energy exploring different approaches. The group works on: 1) data reduction and analyses of supernovae ground based projects [SNLS survey and the SN-Factory project], 2) the preparation of the next generation dark energy mission, namely the SNAP/JDEM proposition with strong responsibilities on the spectroscopy program.

Our team works in close collaboration with the CPT (Centre de Physique Théorique) and the LAM (Laboratoire d'Astrophysique de Marseille) which have complementary knowledge on theory and observation. Extracting the cosmological parameters and understanding dark energy is one of the priorities of these groups. Only by combining different observational probes we may eventually make progress in understanding dark energy, in this context we are developing statistical combination tools, that will run on the grid facility (DataGrid) available at CPPM.

The postdoc will participate actively to the research of the cosmology groups in Marseille. The candidate will work in a large team and should take responsibilities either in SuperNovae or large-scale structure spectroscopy science. He/She should developed simulation tools and/or spectroscopic data reduction software in the context of current and future dark energy probe. Candidates should have some expertise in these areas and have a good background in cosmology. Good computing experience will be favored.

The funding is a 3-year high-level post-doctoral position. The candidate should send a CV, a publication list, a research statement and 3 recommendation letters.

No. 24905 (New)

2009 Chamberlain Fellowship

LAWRENCE BERKELEY NATIONAL LABORATORY

Tel:

URL1: <http://jobs.lbl.gov/LBNLCareers/details.asp?jid=22088&p=1> (application link)

Attention: req#22088

2009 Chamberlain Fellowship

The Lawrence Berkeley National Laboratory's Physics Division invites outstanding recent Ph.D. recipients to apply for the 2009 Owen Chamberlain Fellowship in experimental particle physics and cosmology. Students who expect to receive their Ph.D. degree by the spring of 2009 are also invited to apply.

The Chamberlain Fellow is appointed for three years, with a two year extension possible. The Chamberlain Fellow is given time to review the Division's research program, and participate in any aspect of it. He/she may also pursue new initiatives within experimental particle physics or cosmology. In addition to salary, the Chamberlain Fellow receives a \$5,000 annual research supplement.

For information on the LBNL Physics Division's research program, please consult <http://www-physics.lbl.gov>.

This Fellowship honors Berkeley Nobelist Owen Chamberlain, who (with Emilio Segre, Clyde Wiegand, and Thomas Ypsilantis) discovered the antiproton at the Berkeley Bevatron in 1955. For consideration, please submit your curriculum vitae, publication list, and statement of research interests in a single attachment online at <http://jobs.lbl.gov>. In addition, at least three letters of reference must be emailed to ChamberlainFellow@eroom2.lbl.gov by October 17, 2008. Please reference the Job #22088

LBNL is an Affirmative Action/Equal Opportunity Employer.

No. 24906 (New)

Cosmology Post Doctoral Fellow

LAWRENCE BERKELEY NATIONAL LABORATORY

Tel:

URL1: <http://jobs.lbl.gov/LBNLCareers/details.asp?jid=22135&p=1> (application link)

Attention: req# 22135

The Physics Division at the Lawrence Berkeley National Laboratory is seeking outstanding candidates for a postdoctoral position in experimental cosmology. We are particularly interested in candidates with interest in the SDSS-III Baryon Oscillation Spectroscopic Survey (<http://sdss3.org>), which begins operations in summer 2009. There are also opportunities to work with members of the Berkeley cosmology group (<http://cosmology.lbl.gov>), the Supernova Acceleration Probe (<http://snap.lbl.gov>), and the Berkeley Center for Cosmological Physics (<http://bcpc.lbl.gov>).

This position requires a Ph.D. in Astronomy and/or Physics. Experience in spectroscopy and large surveys is highly desirable. This is a two-year term position with the possibility of renewal. For consideration, please submit your curriculum vitae, publication list, and statement of research interests in a single attachment online at <http://jobs.lbl.gov>. In addition, at least three letters of reference must be emailed to CosmoPD_22135@eroom2.lbl.gov by November 25, 2008. Please reference the Job #22135

LBNL is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.

No. 24916 (New)

Post doctoral fellowship in high-redshift galaxy evolution

NIELS BOHR INSTITUTE (DARK COSMOLOGY CENTRE), UNIVERSITY OF COPENHAGEN

Niels Bohr Institute, University of Copenhagen

Juliane Maries vej 30

Denmark

Tel: +45 35325991

FAX: +45 35325989

URL1: <http://www.dark-cosmology.dk/jobs> (Vacancies at the Dark Cosmology Centre)

URL2: <http://www.nbi.ku.dk/english/> (The Niels Bohr Institute)

URL3: <http://www.dark-cosmology.dk> (The Dark Cosmology Centre)

Email Submission Address: jobs@dark-cosmology.dk

Email Inquiries: sune@dark-cosmology.dk

Attention: Ms. Janaki L. Jensen

The Dark Cosmology Centre at the Niels Bohr Institute, University of Copenhagen, is expanding in the area of high-redshift galaxies evolution. We therefore seek highly motivated postdoctoral fellows with strong independent research programs in this area. The Dark Cosmology Centre offers a vibrant, young research environment with very active workshop and visitor programs, and ample opportunity for scientific and social interaction.

In addition to pursuing their independent research programs, successful candidates will be part of a newly started research area led by Dr. Sune Toft dedicated to studies of massive galaxies at high redshift. There will be opportunities to contribute to defining the research program of the group, and the possibility to supervise PhD students if desired. The appointment is for 2 years with the possibility of extension for a further year, starting in Spring 2009, though later starting dates are also possible.

Successful applicants will receive a competitive salary (>48000 Euro/year, +17.1% pension), and additional funds for computer, travel and publication expenses. Most non-Danish citizens are eligible for a favorable tax scheme. Copenhagen is a beautiful, family-friendly city with a large international community, a lively and diverse cultural scene, and a very high quality of life.

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, as well as arrange to have three letters of reference sent to jobs@dark-cosmology.dk.

We encourage applications from the best candidates irrespective of gender or background. Applications received before 1 November 2008 will receive full consideration. Informal inquiries about the position may be made to Dr. Sune Toft (sune@dark-cosmology.dk).

No. 24917 (New)

Postdoctoral Researcher in Theoretical Cosmology

UNIVERSITY OF OXFORD

Denys Wilkinson Building

Keble Road

Oxford, Oxon OX1 3RH

United Kingdom

Tel: +44 (0)1865 273302

FAX: +44 (0)1865 273390

URL: [Physics \(Astrophysics\)](http://www.physics.ox.ac.uk/astro/jobs/) (<http://www.physics.ox.ac.uk/astro/jobs/>)

Email Submission Address: sec@astro.ox.ac.uk

Email Inquiries: j.dunkley@physics.ox.ac.uk

Attention: Vanessa Ferraro-Wood, Mrs

We invite applications for a postdoctoral research position starting 1 October, 2009 to work in the area of theoretical cosmology for up to three years. There will be a particular focus on cosmic microwave background anisotropy and interpretation of data from the Atacama Cosmology Telescope and the Planck satellite. The successful candidate is likely to have experience in analysis of cosmological data and be capable of initiating research in a lively group with significant interaction between theory and observation. The candidate will work primarily with Joanna Dunkley, but will be encouraged to interact with other faculty members and to carry out independent research.

Oxford Astrophysics offers a stimulating research environment, with a large number of faculty in cosmology, including theoretical (Pedro Ferreira, Joe Silk, Adrienne Slyz), observational (Richard Ellis, Steve Rawlings, Isobel Hook, Lance Miller) and experimental (Mike Jones, Ghassan Yassin, Gavin Dalton).

Appointments are for one year, renewable annually based on satisfactory performance, for a total of up to three years. Salary will be within the range £27466 to £33780 per annum depending on qualifications and experience. A benefits package and a research budget for travel and other expenses will be provided.

Applicants should send a statement of research interests, curriculum vitae, and list of publications to Mrs Vanessa Ferraro-Wood, Astrophysics, Denys Wilkinson Building, Keble Road, Oxford OX1 3RH or email sec@astro.ox.ac.uk by 1 December 2008 and quoting reference number DB08006 and arrange to have three letters of recommendation sent by the same date. For further enquiries contact Joanna Dunkley (j.dunkley@physics.ox.ac.uk).

The University is an equal opportunity employer

No. 24919 (New)

Jansky Fellowships 2009

NATIONAL RADIO ASTRONOMY OBSERVATORY (NRAO)

Tel:

URL1: http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml (*Jansky application process*)

Attention: CV4749 - 2009 Jansky Fellowship

The National Radio Astronomy Observatory (NRAO) announces the 2009 Jansky Fellowship postdoctoral program that 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.

Up to three appointments will be made for positions at any of the NRAO sites (Socorro, NM; Green Bank, WV; and Charlottesville, VA). In the coming years, as ALMA commissioning activities get underway, we plan on positions being 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, up to three non-resident Jansky Fellowship appointments will be offered for positions that may be located at a U.S. university. Frequent and/or long term visits to NRAO sites are encouraged. Split Fellowships with time spent at NRAO and at a U.S. university are allowed.

The starting salary will be \$58,000 per year with an appointment duration of two years and possible renewal for a third year. 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 the host institution to defray local institutional costs for Jansky Fellows resident at non-NRAO sites.

The NRAO web site provides a description of the application process and other relevant details:

http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml. Candidates must receive their PhD prior to beginning a Jansky Fellowship appointment.

The deadline for BOTH applications and letters of recommendation is Monday, November 17, 2008. The NRAO is an equal opportunity employer - women and minorities are encouraged to apply (M/F/H/V).

Award offers will be made by February 15, 2009, with the Fellowships expected to begin in September 2009.

No. 24920 (New)
Post-doctoral position in radio astronomy
RUHR-UNIVERSITY BOCHUM
Astronomical Institute
Universitaetsstr. 150 / NA7
Germany
Tel: +49-234-322-3454
FAX: +49-234-321-4169
URL1: <http://www.astro.rub.de>
URL2: <http://www.lofar.org>
URL3: <http://www.mpifr-bonn.mpg.de/div/lofar>
Email Submission Address: detmar@astro.rub.de
Email Inquiries: middelberg@astro.rub.de

Attention: R.-J. Dettmar, Prof.

We invite applications for the postdoctoral position of a LOFAR station manager. LOFAR, the Low Frequency Array, is a new radio interferometer being constructed in the Netherlands and throughout Europe. It will probe the largely unexplored low frequency regime from 10-240 MHz. Construction of the array is already underway. 13 institutions in Germany, the GLOW consortium, are working together to operate LOFAR stations which provide long baselines. Five German stations have secured funding for construction and initial operation.

GLOW has funds to construct a LOFAR station which is expected to be built near the Forschungszentrum in Jülich, 35km east of Cologne. Construction is expected to begin in April 2009.

We are now seeking a station manager to supervise the construction and early operation of this station. This involves a broad spectrum of activities, from planning the groundwork and erecting the antenna dipoles to testing the station's performance and making early observations. Close collaboration is required with the Forschungszentrum staff and the LOFAR staff at ASTRON, Netherlands. Personal research interests can be pursued during a fraction of 50% of the time. The position will be based at Ruhr-University Bochum, but frequent travels to Jülich and ASTRON (near Dwingeloo) are expected to be necessary. The position has a term of three years and the salary is according to public service in Germany.

Candidates must have a PhD in astronomy, physics or a related field. A background in radio astronomy is essential and a profound knowledge of interferometry desirable. The candidate must have a fluent command of English (essential) and German.

Interested applicants should submit a CV and the names of three referees, preferably via email, to the address given above.

No. 24925 (New)
Postdoctoral Position
UC BERKELEY, ASTRONOMY DEPARTMENT
601 Campbell Hall, MC 3411
Berkeley, CA 94720
USA
Tel:
URL1: <http://astro.berkeley.edu/exoplanetjob>
URL2: exoplanetjob@astro.berkeley.edu

Attention: <http://astro.berkeley.edu/exoplanetjob>

The UC Berkeley Exoplanet Group invites applications for a postdoctoral position starting in the summer or fall of 2009. The position involves 50% time working with Geoff Marcy on two NASA missions, Kepler and SIM, the former due to launch in 2009 and the latter being actively developed. The remaining 50% time is for any research activities. Successful candidates will carry out extensive ground-based spectroscopy, working nights at Lick and Keck Observatories, to assess properties of the exoplanets and host stars from the NASA missions. Work will include performing spectroscopic analysis, identifying eclipsing binaries, measuring Doppler shifts at 1/1000 pixel, and modeling the detected exoplanets. Relevant experience includes spectroscopic analysis and proficiency in Unix/Linux and IDL. Salary is in the range of \$45 - 50K. Successful candidates will enjoy interacting with a broad range of researchers in Astrophysics and in Earth and Planetary Science at UC Berkeley, including the Center for Integrated Planetary Science. A Ph.D. in astrophysics or a related field is required. Application materials are due 1 Dec 2008 and include a CV, bibliography, and statement of interests, submitted electronically at <http://astro.berkeley.edu/exoplanetjob/>. Three letters of reference should be emailed to exoplanetjob@astro.berkeley.edu. UC Berkeley is committed to actively recruiting diverse candidates, including women and minorities: Affirmative Action/Equal Opportunity Employer.

No. 24764
Postdoctoral Fellow in VLBI techniques and applications
JOINT INSTITUTE FOR VLBI IN EUROPE (JIVE)
Tel: +31(0)521 595100
FAX: +31(0)521 595101
URL1: <http://www.jive.nl/>
Email Inquiries: jgurvits@jive.nl; langevelde@jive.nl

Attention: Ms D. Verweij

THE JOINT INSTITUTE FOR VLBI IN EUROPE (JIVE) is seeking candidates for a fixed-term appointment as a Postdoctoral Fellow in VLBI techniques and applications to be located at JIVE, Dwingeloo, The Netherlands.

The Joint Institute for VLBI in Europe (JIVE) operates an advanced 16-station MkIV-standard VLBI data processor (correlator) to support VLBI astronomical observations made with the European VLBI Network (EVN). The EVN is often used in conjunction with the MERLIN interferometer in the UK and the Very Long Baseline Array in the US. The JIVE facilities are also involved in a number of Space Science projects, such as VLBI tracking of planetary missions and VLBI experiments with orbital radio telescopes. JIVE is located in Dwingeloo, in The Netherlands, at the headquarters of ASTRON (Netherlands Institute for Radio Astronomy), which is the host institute for JIVE. Further information regarding JIVE and the EVN can be obtained from www.jive.nl and www.evbi.org.

We invite applications for a position of JIVE Postdoctoral Fellow for Space and Innovative VLBI Techniques and Applications becoming available from the third quarter of 2008. The appointee will be expected to spend 50% of time on research and development of innovative VLBI techniques and 50% on her/his individual research. Assigned responsibilities will be adjusted to the personal expertise and scientific interest of the successful candidate but have to be in one or several areas from the following list: * VLBI astrometry or geodesy; * Special correlator applications (e.g. VLBI spectroscopy, wide-field imaging, pulsar gating); * Astronomical and space science data processing and software development; * Celestial mechanics and space flight dynamics, including fundamental physics applications; * Advanced signal processing (in particular, in space radio navigation).

The position may also involve other duties, such as liaison between R&D projects conducted at JIVE in the areas of advanced VLBI data processing and external users (such as planetary and space science mission communities).

The position requires a PhD degree in astronomy, physics, space and planetary science, geodesy, radio physics or other relevant field, and an adequate knowledge of radio astronomy techniques. Applicants of any nationality are eligible to apply. A good command of written and spoken English is essential.

The appointment is offered for one year in the first instance with the possibility of an extension for one year. The appointee will be in the formal employ of the Netherlands Organization for Scientific Research (NWO). The position carries a competitive salary plus an excellent package of secondary benefits, including relocation expenses.

Please send your application (by e-mail only) to the personnel department of JIVE, attn. Ms D. Verweij, personnel@astron.nl. Applications should include a CV, statement of interest and list of publications, together with three letters of reference, which may be sent separately. All application materials should arrive by 15 September 2008, mentioning ref. Postdoc VLBI techniques. Further information can be obtained from Dr. L.I. Gurvits (lgurvits@jive.nl) and/or Dr. H.J. van Langevelde (langevelde@jive.nl). Telephone enquiries: +31-521-596500.

No. 24775

Postdoctoral position in Observational Cosmology

SPACE TELESCOPE SCIENCE INSTITUTE

Tel:

URL1: <http://www.stsci.edu/institute/employment>

Email Inquiries: careers@stsci.edu

Attention: (Applications should be submitted through given link)

Requisition Number 08-0029

Applications are invited for a postdoctoral research fellow at Space Telescope Science Institute. The successful applicant will work with Massimo Stiavelli on searches of galaxies at redshift greater than 7, on measuring their luminosity function and luminosity density and understanding their implication for the reionization of Hydrogen. The fellow will join the existing collaborations, have full access to reduced images and catalogs and be a member of two recently approved HST programs: (i) Bright galaxies at $z > 7.5$ with a WFC3 Pure Parallel Survey (PI. M. Trenti, U. Colorado, 142 parallel orbits) and (ii) Galaxies at $z \sim 7-10$ in the Reionization Epoch (PI. G. Illingworth UC Santa Cruz, 192 orbits). The fellow will also be encouraged to carry out his or her own personal research. Applicants should be proficient in the use of IRAF/pyraf and preferably have had previous observational experience working on imaging of distant galaxies.

The appointment will be made for an initial period of one year with the possibility for extension to three years contingent on performance and funding. STScI offers an excellent benefit package, competitive salaries and a stimulating research environment.

Requirements: The starting date is negotiable and it could be as early as October 2008. Applicants are required to apply on-line at <http://www.stsci.edu/institute/employment> and upload a cover letter with a curriculum vitae, publication record, and description of research interests/experience and provide names of at least three referees willing to write letters of recommendation.

Completed applications received by September 15, 2008, are assured full consideration but applications will be considered until the job is filled. Woman and members of minority groups are strongly encouraged to apply. EOE/AA/M/M/D/V.

No. 24783

ESA Postdoctoral Fellowships in Space Science

EUROPEAN SPACE AGENCY

Keplerlaan 1

Noordwijk, ZH 2200 AG

The Netherlands

Tel:

FAX: 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 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 2009. 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 2008.

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, Guido De Marchi, at the address fellowship@rssd.esa.int

No. 24805 (New)

Research Associate - Canadian Galactic Plane Survey

NATIONAL RESEARCH COUNCIL CANADA (NRC)

Dominion Radio Astrophysical Observatory (DRAO)

717 White Lake Road

Penticton, BC V2A 6J9

CANADA

Tel:

URL1: <http://hia-ihp.nrc-cnrc.gc.ca/>

URL2: <http://www1.cadc-ccda.hia-ihp.nrc-cnrc.gc.ca/cgps/>

URL3: <http://www.ras.ucalgary.ca/CGPS/>

Email Inquiries: sean.dougherty@nrc-cnrc.gc.ca

Attention:

The NRC Herzberg Institute of Astrophysics has an opening for a Research Associate to join a team working on the Canadian Galactic Plane Survey (CGPS) at the Dominion Radio Astrophysical Observatory (DRAO) in Penticton, B.C.

The position is tenable 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). Research Associates will receive support for research-related travel and journal page charges, and have access to professionally managed computer systems. We offer a highly competitive benefits and salary package.

The CGPS, and its companion VLA and Southern Galactic Plane Surveys, are the work of a large international collaboration. The surveys have imaged the major constituents of the Interstellar Medium (ISM) over a large part of the Galaxy with arcminute resolution, creating a significant database for ISM research. A major contribution to the CGPS has come from the DRAO Synthesis Telescope in the form of wide-field mapping in atomic hydrogen (21 cm) and in continuum emission at 408 and 1420 MHz with full continuum polarization data at 1420 MHz. Research based on the CGPS has advanced the understanding of physical states and processes in the ISM.

The successful candidate will carry out a vigorous program of research, and the appointment will be made largely on the strength of the submitted research plan; all applicants with interests in ISM science are encouraged to apply. Preference will be given to those with research interests in the atomic hydrogen content of the Milky Way or the polarized Galactic emission and its relation to magnetic fields. In addition to research, the Research Associate will be responsible for processing survey data from the DRAO Synthesis Telescope. Candidates must have strong, demonstrated skills in ISM research; experience in aperture synthesis techniques and data processing is essential.

Applicants must have acquired their PhD within the last five years or expect to obtain the degree before starting the Fellowship in 2009. Application should be made by 31 October 2008, via the process described in the poster for competition 40-08-10 at <http://careers-carrieres.nrc-cnrc.gc.ca>. Please note that you must submit a research proposal, along with your cv, cover letter, publication list, and two letters of reference. For further information about the facilities and research programmes at DRAO, please contact sean.dougherty@nrc-cnrc.gc.ca. A starting date of April 2009 is envisaged.

NRC is an equal opportunity employer.

Vous pouvez obtenir ces renseignements en français au <http://careers-carrieres.nrc-cnrc.gc.ca>.

No. 24810

Post-doctoral Fellow in Extragalactic Astronomy
UNIVERSITY OF ARKANSAS AT LITTLE ROCK
2801 South Univerity Avenue
Graduate Institute of Technology
Little Rock, Arkansas 72204-1099
USA

Tel: (501) 569-8210

Email Submission Address: gitpositions@ualr.edu

Email Inquiries: mxseigar@ualr.edu

Attention: Dr. Keith Hudson, Director

The University of Arkansas at Little Rock seeks applicants to fill the position of Post-doctoral Fellow to work with Dr. Marc Seigar in the area of extragalactic astronomy (req #566), to start as soon as possible, but by August 15, 2009 at the latest. This full-time, non-tenure track, 12-month appointment will carry a competitive salary and excellent benefits, and will last for up to 3 years, depending on funding and performance. The position carries with it a secondary affiliation with the Arkansas Center for Space and Planetary Sciences, based on the campus of the University of Arkansas at Fayetteville.

The Arkansas Galaxy Evolution Survey (AGES) is a collaborative effort between the University of Arkansas at Little Rock and the University of Arkansas at Fayetteville. The current goal of the project is to conduct a census of supermassive black holes, although properties of dark matter halos are also of interest. The Post-doctoral fellow will become an active member of this team.

The successful candidate must have earned a PhD in Astronomy, Physics or a related field before employment commences, with a background in extragalactic astronomy. Research experience in studies of supermassive black holes and/or the structure and dynamics of galaxies is highly desired. Experience with the reduction and analysis of ground-based optical/near-infrared imaging and spectroscopic data is also a big plus.

To apply for this position, send a letter of application (referencing req #566) stating qualifications and background for this position; curriculum vitae; list of publications; a statement of research interests (not to exceed 2 pages); and three professional references to: University of Arkansas at Little Rock, Attn: Dr. Keith Hudson, Director, Graduate Institute of Technology, 2801 S. University Avenue, Little Rock, AR 72204. Direct all technical inquiries to: mxseigar@ualr.edu. Direct all other inquiries to (501) 569-8210. Direct all applications to gitpositions@ualr.edu or fax to (501) 569-8039. The subject line should reference req #566. Only complete applications will be considered. Complete applications received by November 15, 2008 will be given full consideration, although applications will be accepted until the position is filled.

The University of Arkansas at Little Rock is an equal opportunity, affirmative action employer and actively seeks the candidacy of women, minorities and individuals with disabilities. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.

No. 24820

McWilliams Postdoctoral Fellowship in 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

McWilliams Postdoctoral Fellowship in Cosmology

Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for McWilliams Postdoctoral Fellowships in Cosmology. Appointments will be made to outstanding researchers displaying significant promise in the fields of theoretical astrophysics, experimental astrophysics, or theoretical particle physics aimed at understanding the dark part of the universe. McWilliams Fellows are expected to carry out their own program of original research, independently or in collaboration with Carnegie Mellon faculty, postdoctoral fellows and students.

Endowed McWilliams Postdoctoral Fellowships are part of the new McWilliams Center for Cosmology at Carnegie Mellon (website <http://www.cmu.edu/cosmology>) opened in 2008. The Center joins research efforts in both particle physics and astrophysics within the Department of Physics at Carnegie Mellon, and includes new faculty hires, the McWilliams Postdoctoral Fellowships, a visitor program, and very substantial parallel computing facilities devoted to the work of the Center. The Center for Cosmology synergizes efforts within the Department and capitalizes on unique collaborative opportunities with the Carnegie Mellon Departments of Computer Science and Statistics, Google Pittsburgh on campus, and the nearby Pittsburgh Supercomputing Center and University of Pittsburgh Physics and Astronomy Department. These synergies are exemplified in Carnegie Mellon's participation in the collaboration building the LSST.

Appointments are for 2 years, with renewal for a third year likely, contingent upon satisfactory progress. The stipend for 2009-2010 will be approximately \$55,000 with a research budget of \$15,000. Funds are also provided for health benefits and relocation expenses.

The anticipated starting date is September 2009. Candidates should submit a curriculum vitae, publication list, statement of research plans, and arrange for three letters of recommendation to be sent to

McWilliams Fellowship Search Committee, Department of Physics, Carnegie Mellon University, Pittsburgh, PA 15213.

For full consideration, all materials should be received by October 31, 2008.

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

No. 24655

Postdoctoral Position in High Energy Astrophysics

UNIVERSITY OF MICHIGAN

450 Church Street

2477 Randall Lab

Ann Arbor, MI 48109-1040

USA

Tel: 734-764-9278

FAX: 734-936-6529

URL1: www.rotse.net

Email Submission Address: cakerlof@umich.edu

Email Inquiries: cakerlof@umich.edu

Attention: Carl Akerlof, Professor of Physics

The ROTSE project at the University of Michigan is seeking to fill a post-doctoral scholar position in Ann Arbor starting in the fall of 2008. The research program is centered on the prompt optical observations of gamma-ray bursts and looks forward to a major role in characterizing the GRBs identified by the NASA GLAST mission to be launched in May. Recently, the ROTSE project has begun an upgrade of a very successful program to identify relatively nearby supernovae that has resulted in the discovery of the superluminous events, SN 2005ap and SN 2006gy. We are also planning follow-up observations of potential astrophysical objects identified by the IceCube neutrino detector and the LIGO gravitational wave detector.

In addition to a PhD in physics or astronomy, the successful candidate should have some background in optical imaging techniques and a good working knowledge of Linux/UNIX systems. Occasional travel to ROTSE locations in Australia, Texas, Namibia and Turkey is required. Please contact Professor Carl Akerlof at the E-mail address or telephone number given above.

The University of Michigan is an Equal Opportunity Employer. This position is open until filled.

No. 24729

Two Postdoctoral Fellowships in Galaxy Cluster Science

UNIVERSITY OF MICHIGAN

450 Church Street

Ann Arbor, MI 48104-1040

USA

Tel: 734-763-1462

FAX: 734-936-1817

URL1: <http://www.jsa.umich.edu/physics/research/groups/astrophysics/>

Email Submission Address: tamckay@umich.edu

Email Inquiries: tamckay@umich.edu

Attention: Timothy McKay, Arthur Thurnau Professor of Physics

The astrophysics group at the University of Michigan is seeking to hire two postdoctoral scholars to advance galaxy cluster cosmology, primarily under the supervision of Professor Tim McKay. These postdocs will join in a staged series of projects beginning with public SDSS data, and continuing into the Dark Energy Survey. Successful candidates will work on public SDSS datasets, new follow-up observations with Magellan, MDM, and X-ray telescopes, and preparation for the DES. The DES, which will allow us to extend cluster studies to beyond $z=1$ over 5000 square degrees, is under construction and will begin taking data at CTIO in Fall 2011. DES efforts will focus on development of new multiwavelength cluster detection and characterization algorithms, tested on state-of-the-art mocks. Work done in preparation for the DES can earn postdocs long-term membership in the collaboration.

These positions require a PhD in physics or astronomy, along with a strong astrophysical and computational background. Experience in cosmology, cluster science, gravitational lensing, photometric redshifts, high performance computing, large data sets, or astrostatistics would be especially valuable. Review of applications will begin August 1, 2008, and continue until the positions are filled. Funding is in place to support both positions for terms of 3-5 years. Applications should include a CV, a statement describing qualifications and research interests, and three letters of recommendation. The University of Michigan is an Equal Opportunity Employer.

No. 24752

Postdoctoral Scholar in Star Formation and Galaxy Evolution

UNIVERSITY OF PENNSYLVANIA

Department of Physics and Astronomy

209 South 33rd Street

Philadelphia, PA 19104

USA

Tel: (215) 898-9596

FAX: (215) 573-3897

Email Submission Address: jaguirre@nrao.edu

Email Inquiries: jaguirre@colorado.edu

Attention: James Aguirre, Assistant Professor

Seeking a postdoctoral scholar to study the properties of molecular gas in dusty star-forming galaxies at all redshifts -- from LIRGs and ULIRGs in the local universe to the submillimeter galaxy population at the historical peak of star-formation activity ($1 < z < 3$) -- using a new broadband, millimeter-wave, direct-detection diffraction-grating spectrometer, Z-Spec, at the Caltech Submillimeter Observatory. Z-Spec covers the complete 1 mm atmospheric window from 195--305 GHz with a resolution ~ 1000 km/s, at near background-limited sensitivity. Using Z-spec, the postdoc will conduct two unique astrophysical experiments:

- 1) Use simultaneous, multiple CO lines to measure redshifts of a sample of submillimeter galaxies with $z > 1$ selected purely on their (sub)millimeter properties, and use the multiple CO lines to probe the molecular gas properties.
- 2) Conduct broad-band 195--305 GHz line surveys of LIRGs and ULIRGs, measuring CO isotopes, density tracers, and PDR tracers in a single spectrum and constructing models to constrain mass, temperature, density, and UV illumination of the molecular gas.

The successful applicant will have a Ph.D. in physics, astrophysics, or related subjects, and will be familiar with astrophysical instrumentation and data analysis techniques, and preferably C++ and IDL. Prior experience with bolometer instrumentation is not necessary, though it will be beneficial.

Please submit your curriculum vitae with relevant work and research experience, a list of publications and a list of three references (email preferred).

The position is available beginning July 1, 2008. Salary is commensurate with level of experience; benefits are provided.

No. 24861 (New)

PhDs in Observational and Computational Astrophysics at Swinburne University

SWINBURNE UNIVERSITY OF TECHNOLOGY

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> (Centre for Astrophysics & Supercomputing)

Email Submission Address: mmurphy@swin.edu.au

Email Inquiries: mmurphy@swin.edu.au

Attention: Michael Murphy, Postgraduate Recruitment Officer

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 (1950 nodes, approx. 10Tflops).

A range of PhD scholarships are available with yearly stipends starting at AU\$23000. In addition, PhD students are allocated a research budget to cover computing (e.g. laptop) and/or travel (e.g. telescope observing, conferences 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 31, 2008. However, note that potential applicants should first discuss possible PhD projects with their intended supervisor who must support a formal application. All application materials must reach CAS by October 22, 2008.

No. 24921 (New)

PhD positions in extragalactic astronomy

RUHR-UNIVERSITY BOCHUM

Astronomical Institute

Universitaetsstr. 150 / NA7

Germany

Tel: +49-234-322-3454

FAX: +49-234-321-4169

URL1: <http://www.astro.rub.de>

Email Submission Address: dettmar@astro.rub.de

Email Inquiries: bomans@astro.rub.de

Attention: R.-J. Dettmar, Prof.

The Ruhr-University Bochum is one of the leading research universities in Germany. The Astronomical Institute (AIRUB) is actively involved in instrument development e.g. for the Large Binocular Telescope, is a partner in the LOFAR radio telescope, and runs an active research program in galaxies structure and evolution, stellar, and interstellar medium physics.

The Astronomical Institute of the Ruhr-University Bochum has vacancies for 3 PhD students. All three PhD projects are in observational extragalactic astrophysics, with the following topics: - Radio continuum polarization in galaxy halos. - Halo gas kinematics of spiral galaxies. - Low surface brightness galaxies. The PhD students will be supervised by Dr. D.J. Bomans, Prof. Dr. R.-J. Dettmar, and Dr. E. Middelberg.

The programs are linked to active collaborations of AIRUB scientists within Germany and with partners in France, Poland, Spain, and The Netherlands, as well as Australia and the USA.

A PhD position at the AIRUB will be for a period of 3 years. (A review of the performance takes place after one year.) The salary will be based on the German civil servant salary scheme. The Ruhr-University is an equal opportunity employer.

Applicants should send a CV and the names and addresses of 2 references (incl. phone and email), as well as a short outline of their knowledge and experience the address given above. Please state (and argue) your preference for one of the projects and note if you would be interested in the other projects, too.

No. 24854 (New)
Director of Engineering
NATIONAL ECOLOGICAL OBSERVATORY NETWORK
3223 Arapahoe, Suite 210
Boulder, CO 80303
Tel:
URL1: careers@neoninc.org
Email Submission Address: careers@neoninc.org

Attention: Human Resources

DIRECTOR OF ENGINEERING

The Organization The National Ecological Observatory Network (NEON, Inc.), a nonprofit science corporation dedicated to understanding how changes in climate, land use and invasive species impact ecology, has an immediate opening for a Director of Engineering.

Essential Duties/ Responsibilities: - Selecting and developing talent to deliver project capability. - Defining & evolving the engineering architecture, infrastructure, toolsets and best practices of the organization to meet project requirements, in collaboration with the NEON Chief Technology Officer and Director of Facilities & Civil construction. Plan & manage the engineering components of site design/construction at the domains. - Initiate & direct engineering research/development efforts to develop technologies and practices to meet project needs where commercially unavailable. - Understand and where necessary define administrative & project management processes to include planning, tracking & reporting. - Develop in conjunction with the Director of Environmental, Health & Safety the engineering policies & practices to ensure proactive and effective management of safety and environmental issues, including setting of strategies, requirements establishment, monitoring, reporting and verification.

Minimum Qualifications: • Candidate must possess at least a Bachelor of Engineering/Technology with a broad understanding across all engineering disciplines, Ph. D. preferred. • Significant experience and understanding in electro-mechanical design, construction & operation of high-technology sensors & field equipment on at least 2 separate projects with a track record of success. Experience with sensor hardware/software interfaces. • Highly-developed interpersonal and communications & negotiation skills, with proven ability to manage external contractual relationships. • A proven familiarity with modern system engineering and quality assurance practices is required. • Expert in project software (CAD, Excel, Primavera, Word, PowerPoint) and good presentation skills. • An aviation, aerospace or astronomy background would be a beneficial. • Previous experience with ecological/biology projects and working in a start-up preferred.

Compensation and Benefits: This position will be based in Boulder CO, with travel to the field sites as needed.

To apply: Please send your resumes and inquiries to Careers@NeonInc.org with in the subject line. Include cover letter, resume, salary history, and salary requirements. NEON Inc. is an Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

No. 24889 (New)
Lead Software Engineer or Lead Software Scientist (Astronomy)
NEW MEXICO TECH/MAGDALENA RIDGE OBSERVATORY INTERFEROMETER
801 Leroy Place
Socorro, NM 87801
USA
Tel: 575-418-7453
FAX: 575-835-6807
URL1: <http://www.mro.nmt.edu> (Magdalena Ridge Observatory)
URL2: <http://www.nmt.edu> (New Mexico Tech)
URL3: <http://www.mrao.cam.ac.uk> (Astrophysics Group, Department of Physics, Cavendish Laboratory, University of Cambridge)
Email Submission Address: jobs@mro.nmt.edu
Email Inquiries: jobs@mro.nmt.edu

Attention: Project Manager of MROI

New Mexico Tech has an immediate opening for a Lead Software Engineer or Lead Software Scientist for the Magdalena Ridge Observatory (MRO) presently under construction in the Magdalena Mountains, west of Socorro, NM. The successful candidate will be working with the MRO Interferometer, a state-of-art optical interferometer expected to be entering commissioning in a few years.

We seek applicants who have a demonstrated track-record and strong proficiency with design and development of real-time and embedded software for distributed control systems and scientific data acquisition systems, using client/server methodologies and object oriented programming. The successful applicant will act as group leader for a team of software engineers developing real-time and off-line software.

Job responsibilities include designing, coding, testing, integrating and debugging software for astronomy observatory control and data acquisition applications using Linux, real-time Linux, C++, Java, CORBA, client/server protocols, input/output adapters, and device drivers. This position requires significant software engineering experience and depth of familiarity with implementation of world-class facility-grade software applications for complex scientific systems.

The Lead Software Engineer/Scientist must provide MRO with significant software engineering and architecture experience in combination with leadership capabilities. In depth familiarity with software for astronomical observatories is highly desirable.

A minimum of a Bachelor's degree in Computer Science, Engineering, Math or a related science discipline is required. A Master's or Ph.D. would be a strong asset. Review of applications will start on October 1, 2008 and will remain open until a suitable candidate is identified.

Please send resume, and the names of three references, to the MRO Interferometer Project Manager, jobs@mro.nmt.edu

No. 24807
Structures Group Lead Engineer
THIRTY METER TELESCOPE
Tel:
URL1: <http://www.tmt.org> (Thirty Meter Telescope)
URL2: <http://www.tmt.org/employment/tmt-observ-corp.html> (TMT Employment Opportunities)
URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?jaction=JobProfile&Job_Id=10061&esid=az (Structures Group Lead Engineer Application)
Email Inquiries: jobs@tmt.org

Attention: Kei Szeto, Telescope Structures Group Leader

Requisition Number: TMT10061 Job Title: Structures Group Lead Engineer

Anticipated Hiring Range: \$120,000-\$165,000

Job Summary

The Thirty Meter Telescope (TMT) project is a collaboration of Caltech, the University of California (UC) and the Association of Canadian Universities for Research in Astronomy (ACURA) that will design and build the world's largest optical-infrared telescope. This position is at the TMT Project office in Pasadena, CA. The Thirty Meter Telescope Observatory will be built at one of two candidate sites: Mauna Kea, Hawai'i; or Armazones, Chile.

The Structures Group Lead Engineer will provide technical leadership for the design and implementation of the telescope mount and its associated mechanical and electrical systems.

Job Duties

The Structures Group Lead Engineer will lead a team who are responsible to:

- Develop the structural design of the Thirty-Meter Telescope - Design the telescope bearings, drives, encoders, brakes, counterweights, earthquake restraints, safety locks, limit switches, hard stops, cable wraps and on-board cranes for handling telescope mirrors - Design tooling, fixtures and equipment for assembling, installing, aligning, and testing the telescope structure and its subsystems - Work with the project Systems Engineering Group to develop design requirements, error budgets and interface control documents for the telescope structure and its subsystems - Develop plans, schedules and cost estimates - Develop and present design documentation at design reviews - Supervise procurement and fabrication of the telescope structure and its subsystems - Plan and supervise transport of the telescope to the observatory site - Plan and supervise assembly, integration and testing of the telescope structure in the observatory

Minimum Requirements

MS degree in Civil Engineering, Mechanical Engineering or a closely related discipline, plus 10 years of experience in the design, fabrication, installation and alignment of large complex machines or precision structural mechanisms, including significant experience leading a team of engineers performing structural and mechanical design of such mechanisms. Experience in large projects is strongly preferred. Experience in building large optical or radio telescopes is strongly preferred.

Significant travel will be required to partner, vendor and observatory locations.

Knowledge, Skills & Abilities

Candidate should have strong mechanical and structural design skills, experience doing finite-element analysis, knowledge of the design of large structures, knowledge of steel fabrication techniques and experience assembling and aligning large structures. Knowledge of structural design practices for earthquake survival is highly desirable.

Candidate should be familiar with solid modeling and finite-element analysis software; familiarity with SolidWorks and ANSYS are preferred. Familiarity with MATLAB is a plus. Experience with large astronomical observatories is a plus.

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

No. 24808

Senior Mechanical Engineer

THIRTY METER TELESCOPE

Tel:

URL1: <http://www.tmt.org> (*Thirty Meter Telescope*)

URL2: <http://www.tmt.org/employment/tmt-observ-corp.html> (*TMT Employment Opportunities*)

URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?ibaction=JobProfile&Job_Id=10059&esid=az (*Senior Mechanical Engineer*)

Email Inquiries: jobs@tmt.org

Attention: Kei Szeto, Telescope Structures Group Leader

Requisition Number: TMT10059

Job Title: Senior Mechanical Engineer

Anticipated Hiring Range: \$110,000-\$150,000

Job Summary

The Thirty Meter Telescope (TMT) project is a collaboration of Caltech, the University of California (UC) and the Association of Canadian Universities for Research in Astronomy (ACURA) that will design and build the world's largest optical-infrared telescope. This position is at the TMT Project office in Pasadena, CA. The Thirty Meter Telescope Observatory will be built at one of two candidate sites: Mauna Kea, Hawai'i; or Armazones, Chile.

The Senior Mechanical Engineer will work as part of the team developing the design of the telescope structure and its associated mechanical systems. This engineer will be responsible for the design, development, fabrication, assembly, and verification of the major mechanical systems on the telescope structure.

Job Duties

The Senior Mechanical Engineer will:

- Work with industrial suppliers to design the telescope hydrostatic bearings and oil supply system - Develop the drive systems for the telescope azimuth and elevation axes, including linear direct drive motors, position encoders, brakes, limit switches and motion stops - Design the telescope cable wraps, cable trays and utility distributions systems - Design counterweights, earthquake restraints, safety locks and on-board cranes for handling telescope mirrors - Develop access and servicing procedures for the telescope mechanical systems and coordinate with the structural design engineer to accommodate them in the structural design - Design tooling, fixtures and equipment for assembling, installing, aligning, and testing the telescope structure and its mechanical subsystems - Select and procure mechanical and electro-mechanical components - Oversee development of detailed CAD models of the telescope structure and its associated mechanical systems - Prepare design documentation - Present designs and analysis results at project reviews - Support development of interface control documents between the telescope structure and telescope-mounted mechanical, optical and electronic systems - Support the development of construction schedules and cost estimates - Support the procurement and fabrication of the telescope structure and its mechanical subsystems - Participate in the assembly, integration and testing of the telescope in the observatory

Minimum Requirements

- BS degree in Mechanical Engineering or closely related discipline, plus 10 years relevant experience in machine design or a related field - Excellent CAD skills; familiarity with SolidWorks is preferred - Working knowledge of control systems - Experience in performing finite element analysis; experience with ANSYS is preferred - Proven record of delivering designs that meet standards, including safety and reliability standards - Good problem-solving skills and communication abilities required

The project office is located in Pasadena and residence in the area is required. Significant travel will be required to partner, vendor and observatory locations.

Knowledge, Skills & Abilities

- Candidate should have strong mechanical design and analysis skills, including expertise in: - Machine design; experience designing large precision machines is preferred - Hydraulic system design - Heat transfer and thermal control - Vibration analysis, and vibration mitigation systems - Design and control of linear and rotational drive mechanisms - Experience with MATLAB is preferred - Experience designing optical or radio telescopes is a plus - Experience managing technical contracts and procurements is a plus

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

No. 24809

**Senior Structural Engineer
THIRTY METER TELESCOPE**

Tel:

URL1: <http://www.tmt.org> (*Thirty Meter Telescope*)

URL2: <http://www.tmt.org/employment/tmt-observ-corp.html> (*TMT Employment Opportunities*)

URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=10057&esid=az (*Senior Structural Engineer Application*)

Email Inquiries: jobs@tmt.org

Attention: Kei Szeto, Telescope Structures Group Leader

Requisition Number: TMT10057

Job Title: Senior Structural Engineer

Anticipated Hiring Range: \$110,000-\$150,000

Job Summary

The Thirty Meter Telescope (TMT) project is a collaboration of Caltech, the University of California (UC) and the Association of Canadian Universities for Research in Astronomy (ACURA) that will design and build the world's largest optical-infrared telescope. This position is at the TMT Project office in Pasadena, CA. The Thirty Meter Telescope Observatory will be built at one of two candidate sites: Mauna Kea, Hawai'i; or Armazones, Chile.

The Senior Structural Engineer will work as part of the team developing the design of the telescope structure and its associated mechanical systems.

Job Duties

The Senior Structural Engineer will:

- Develop and optimize the structural design of the telescope based on a complex set of requirements and goals
- Develop structural designs for telescope mounted mechanical systems, such as on-board cranes for handling telescope mirrors
- Perform quasi-static finite element analyses of the gravity deflection and thermal distortion of the structure
- Perform dynamic finite-element analyses of the vibration mode shapes and the response of the structure to dynamic disturbances including wind shake, equipment vibration and earthquake ground accelerations
- Perform Dynamic finite element analyses of the structural response interaction with the mount control system and primary mirror control system
- Perform sensitivity studies to support development of bottom-up error budgets
- Prepare design documentation
- Work with a design draftsman to prepare structural drawings to support the telescope structure procurement process, including specifying the required joint details
- Present analysis results at project reviews
- Support the development of detailed CAD models of the telescope structure and its associated mechanical systems
- Support development of interface control documents between the telescope structure and telescope-mounted mechanical, optical and electronic systems
- Support the development of construction schedules and cost estimates
- Support the technical management of subcontractors

Minimum Requirements

- MS degree in Civil Engineering or closely related discipline, plus 6 years relevant experience in structural design, analysis and construction of large precision steel structures; experience designing large dynamic structures is preferred
- Strong background in finite-element analysis; experience with ANSYS is strongly preferred
- Good knowledge of structural design code requirements
- Proven record of delivering designs that meet standards
- Good problem-solving skills and communication abilities required

The project office is located in Pasadena and residence in the area is required. Significant travel will be required to partner, vendor and observatory locations.

Knowledge, Skills & Abilities

- Computer programming experience with a good knowledge of MATLAB
- Familiarity with SolidWorks
- Experience in designing for ease of manufacturing and assembly
- Knowledge of structural design practices for earthquake survival is highly desirable
- Experience in designing optical or radio telescope structures is preferred
- Experience in managing technical contracts and procurements is a plus

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

No. 24813

**Mechanical Designer
THIRTY METER TELESCOPE**

Tel:

URL1: <http://www.tmt.org/> (*Thirty Meter Telescope*)

URL2: <http://www.tmt.org/employment/index.html> (*TMT Employment Opportunities*)

URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=10060&esid=az (*Mechanical Designer Application*)

Email Inquiries: jobs@tmt.org

Attention: Kei Szeto, Telescope Structures Group Leader

Requisition Number: TMT10060

Job Title: Mechanical Designer

Anticipated Hiring Range: \$74,000-\$105,000

Job Summary

The Thirty Meter Telescope (TMT) project is a collaboration of Caltech, the University of California (UC) and the Association of Canadian Universities for Research in Astronomy (ACURA) that will design and build the world's largest optical-infrared telescope. This position is at the TMT Project office in Pasadena, CA. The Thirty Meter Telescope Observatory will be built at one of two candidate sites: Mauna Kea, Hawai'i; or Armazones, Chile.

The Mechanical Designer will be a member of the Telescope Structures Group and will work on the design process of the telescope structure and related mechanical systems, and prepare design documentation for the telescope structure system.

Job Duties

The Mechanical Designer will:

- Work with a senior structural engineer to develop the design of the telescope structure to meet a complex set of requirements and goals - Establish and maintain the design of the telescope structure working closely with scientists and structural, mechanical, optical, electronic and controls engineers - Work with a senior mechanical engineer to design the telescope bearings, drives, encoders, brakes, counterweights, earthquake restraints, safety locks, limit switches, hard stops, cable wraps and on-board cranes for handling telescope mirrors - Design and create 3-D solid models of the telescope and its subsystems using SolidWorks - Calculate and keep track of the mass and center of mass of components and subsystems of the telescope - Create interface control drawings - Develop and maintain drawings for fabrication, specifications, integration plans, technical reports and other documents to support TMT engineers - Create complex illustrations, charts and animations for presentations

Minimum Requirements

- BS in Mechanical Engineering or equivalent of 10 years of professional experience in engineering design, including experience in optomechanical, tooling design or machine design applications - Expert knowledge and proficiency in solid modeling and drafting software including SolidWorks and AutoCAD - Knowledge of engineering drawing practices, including geometric tolerancing and dimensioning practices per ASME Y14.5M

The project office is located in Pasadena and residence in the area is required. Some travel will be required to partner, vendor and observatory locations.

Knowledge, Skills & Abilities

- Knowledge of mechanical fabrication techniques and achievable manufacturing tolerances - Good understanding of engineering fundamentals - Good problem solving skills - Good verbal communication skills - Good ability to organize work and ability to work independently - Must have good working knowledge of computers and graphics software packages to be able to convert files, manipulate images, create animations, etc. - Experience working on design of large structures, facilities, or machines would be a plus - Familiarity with structural steel construction practices would be a plus - Familiarity with astronomical observatories would be a plus

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

No. 24814

Senior Opto-Mechanical Engineer THIRTY METER TELESCOPE

Tel:

URL1: <http://www.tmt.org/> (Thirty Meter Telescope)

URL2: <http://www.tmt.org/employment/tmt-observ-corp.html> (TMT Employment Opportunities)

URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?ibaction=JobProfile&Job_Id=10053&csid=az (Senior Opto-Mechanical Engineer Application)

Email Inquiries: jobs@tmt.org

Attention: Eric Williams, Telescope Optics Group Leader

Requisition Number: TMT10053

Job Title: Senior Opto-Mechanical Engineer

Anticipated Hiring Range: \$100,000-\$140,000

Job Summary

The TMT project is a collaboration of Caltech, University of California (UC) and the Association of Canadian Universities for Research in Astronomy (ACURA). The TMT project office in Pasadena leads and coordinates the work in Pasadena and at partner locations.

Reporting to the Telescope Optics Group Leader, the Sr. Opto-Mechanical Engineer will work with contractors developing the designs for the primary mirror segment support assemblies, the secondary mirror assembly and the tertiary mirror assembly, and will play a lead role in the design of the associated coating, cleaning, handling and in-situ testing equipment.

Job Duties

The Opto-Mechanical Engineer will:

- Develop error budgets - Perform tolerance studies - Develop design requirements for telescope optics and support systems - Develop interface documents for telescope optics and support systems - Perform and direct analyses and optimizations using FEA - Utilize SolidWorks CAD system to guide and monitor design effort - Monitor and coordinate opto-mechanical engineering activities by partner institutions and vendors - Support cost vs. performance tradeoffs - Leads the design of equipment for in-situ testing, cleaning, and coating of the primary, secondary and tertiary mirrors - Leads the development of design concepts for optic handling equipment - Support the preparation of requests for proposals (RFPs) and related contract documents - Write technical reports - Prepare and deliver technical presentations

Minimum Requirements

- An advanced degree in mechanical engineering, engineering mechanics or equivalent; PhD preferred - 8 years experience in opto-mechanical engineering

The project office is located in Pasadena and residence in the area is required. Significant travel will be required to partner, vendor and observatory locations.

Knowledge, Skills & Abilities

- Extensive knowledge of finite-element analysis (FEA) techniques * Opto-mechanical analysis: **Ability to analyze deformations of large optical elements using FEA and to evaluate the results in terms of optical aberrations **Active optics - Stress analysis - Geometric-nonlinear and contact analysis - Dynamic analysis (shock and vibration response) - Experience with vibration testing of structures

Knowledge of fracture mechanics

- Strong knowledge of geometrical tolerancing and dimensioning - Experience with design of optomechanical assemblies and precision mechanisms - Expertise with SolidWorks or equivalent solid-modeling program - Strong background in geometrical optics - Knowledge of large-optics fabrication and testing methods - Excellent written and oral communication skills - Record of publication in professional journals and conference proceedings - Knowledge of Matlab is preferred - Experience with the design of large astronomical telescopes is preferred - Experience monitoring large procurement contracts is preferred

Complementary Skills (preferred)

The following complementary skills are a plus, but not required: - Optical ray-tracing (Zemax or CodeV) - Knowledge of optical metrology and interferometry - Theoretical and/or practical experience - Knowledge of optical coating design, process and inspection - Experience using laser trackers or theodelites for making precision alignments - Knowledge of cleaning methods used for large optics

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

No. 24815

**Telescope Controls Engineer
THIRTY METER TELESCOPE**

Tel:

URL1: <http://www.tmt.org/> (Thirty Meter Telescope)

URL2: <http://www.tmt.org/employment/tmt-observ-corp.html> (TMT Employment Opportunities)

URL3: http://www2.recruitingcenter.net/clients/tmt/publicjobs/controller.cfm?jbaction=JobProfile&Job_Id=10054&esid=az (Telescope Controls Engineer Application)

Email Inquiries: jobs@tmt.org

Attention: Mark Sirota, Telescope Controls Group Leader

Requisition Number: TMT10054

Job Title: Telescope Controls Engineer

Anticipated Hiring Range: \$90,000-\$129,800

The Thirty Meter Telescope (TMT) project has been established to design, build and eventually operate an Extremely Large Telescope (ELT) with a primary mirror diameter of 30 meters. ELT's will be the successors of the present day 8-10 meter world class telescopes. When complete the TMT will be the largest ground based optical/infrared telescope in the world providing the capability to study exciting astronomical problems from the nature of extra-solar planets to the first stars in the universe. The TMT project is currently in a design and development phase. Major construction activity is anticipated to begin in early 2009 with initial science operations commencing in 2016. The TMT project office is located in Pasadena, CA, USA.

The TMT project is looking for individuals who are self-motivated and excited by the opportunity to work on a highly visible, world class international project that will significantly advance our understanding of the universe. An added benefit to working on the TMT project is that it provides an opportunity for the motivated engineer to directly work on, and make substantive contributions to, a wide array of multi-disciplined state of the art technical challenges.

Job Summary

The Telescope Controls Engineer will be a member of the project team and will be responsible for leading and/or supporting the successful delivery of various telescope control and data acquisition systems. The Telescope Controls Engineer will have primary responsibility for the development, fabrication, and integration of the Mount Control System including the custom linear motors and associated drives. In addition the Telescope Controls Engineer will provide support for the development of the Telescope Control System, the M1, M2, and M3 Control Systems, and lead or support various ancillary control and data acquisition systems. The design and build of the various telescope systems will be distributed amongst TMT partner institutions, collaborators, industry, and the project office.

The successful candidate will have a theoretical and analytic, as well as a practical, understanding of control and servo systems. The successful candidate will also have a broad based engineering design background along with specific hands-on experience working with the mechanical, electrical, electronic, and software components of motion control systems. Although the Telescope Controls Engineer responsibilities will primarily focus on hardware the success candidate will have a working knowledge of software and work closely with the Lead Telescope Controls Software Engineer.

Primary Responsibilities:

- Requirement and interface definition, architecture, design, fabrication and commissioning of the Mount Control System. - Requirement and interface definition, architecture, design, and commissioning of the Engineering Sensor Data Acquisition System. - Requirement and interface definition, architecture, design, and commissioning of the Telescope Control System hardware. - Technical design and commissioning support for the M1, M2, and M3 control systems. - Lead and/or support the development of ancillary telescope control and data acquisition systems.

Required Qualifications:

- A Bachelor's degree in an engineering discipline and a minimum of 5 years related experience. - Experience in the design of high performance, large structure, motion control systems. - Working knowledge of classical and modern control analysis and implementations. - Working familiarity with high performance motion control hardware including DC motors, encoders, accelerometers, single board controllers, and drive systems. - Working familiarity with Matlab or similar modeling tools. - Experience of specifying and procuring distributed control and data acquisition system computer hardware. - Direct experience with the design and integration of large, distributed, control systems. - Experience with electronics and motion control test and analysis equipment. - A broad multi-disciplinary engineering background. - Experience of interfacing with scientific and engineering staff to develop requirements. - Excellent written and oral communication skills.

Desired Qualifications:

- Experience with direct drive linear motors and large bore tape encoders. - An advanced degree in an engineering discipline. - Experience of large, technical, multi-disciplinary, geographically distributed projects; astronomical or similar. - Experience of pointing and tracking motion control systems. - Experience with control system frameworks e.g. (EPICS, SCADA) and high speed networked communications e.g. (TCP/IP).

Some travel will be required to partner locations, vendor, and observatory locations.

TMT offers a competitive compensation package including medical, dental, and retirement benefits.

TMT is collaboration between the Association of Canadian Universities for Research in Astronomy (ACURA), the California Institute of Technology and the University of California. TMT work is supported, as well, by the Canada Foundation for Innovation, the Gordon and Betty Moore Foundation, the National Optical Astronomy Observatory, which is operated by AURA under cooperative agreement with the National Science Foundation, the Ontario Ministry of Research and Innovation, and the National Research Council of Canada.

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

No. 24827 (New)

Computing Facilities Manager

CANADIAN INSTITUTE FOR THEORETICAL ASTROPHYSICS, UNIVERSITY OF TORONTO

Tel:

URL1: www.cita.utoronto.ca (Working at CITA)

URL2: www.jobs.utoronto.ca (Please apply online)

Email Inquiries: citadmin@cita.utoronto.ca

Attention: Computing Committee

The Canadian Institute for Theoretical Astrophysics (CITA) is in search of a new manager for our computing resources. We are looking for someone with a

strong HPC background and excellent Linux administration skills, who wants to work with scientists on challenging problems in an academic environment.

ABOUT CITA The Institute is a world-renowned national centre for advanced cosmic research sited at the University of Toronto, rated as one of the top employers in Canada. Its 7 faculty, 21 postdoctoral fellows, 15 graduate students and over 100 visitors per year, are engaged in leading-edge large-scale simulations and data analysis/mining through a network of advanced massively parallel computer systems. The Computer Facilities Manager position offers a unique opportunity to be fully engaged in enabling this activity.

CITA has pursued HPC since the mid 1990s with several successive generations of hardware. In 2003 we built the "McKenzie" cluster which scored #38 on the top 500 list, still the highest-ever ranking for a Canadian academic computer. In 2007 we replaced it with "Sunnyvale", a 1,600-core, 10 TFlop cluster. Innovative networking schemes designed in-house were used to significantly boost code performance on both of these clusters. In June 2008 we finished building a 40TB lustre filesystem based on commodity hardware.

ABOUT THE POSITION You will be responsible for acquiring, installing, and operating all of CITA's computing resources. Since greater computing resources translate directly into scientific results, we'll be looking to you for innovative ideas to help us get the most bang-for-the-buck out of our machines. This is a hands-on position, but you'll also oversee a small staff consisting of a Parallel Programmer and 1-2 student assistant(s).

QUALIFICATIONS • Education: B.Sc. preferably in Computer Science, Physics or Engineering, or equivalent practical experience through a degree program in Astronomy with proven advanced programming skills.

- Experience: Minimum 7 years' experience with *NIX system programming and/or *NIX system administration. Solid knowledge of Fortran, C, and C++. Experience with graphics visualization an asset. 2 years' proven supervisory experience.
- Skills: Advanced skills in the *NIX system programming and systems administration. Well developed skills in Fortran, C, and C++, as well as with graphics visualization. Must be able to interface with parallel astrophysical programming needs, including massively parallel system configuration and programming.
- Other: Must be adaptable and a fast learner. Must be able to handle several tasks simultaneously through good organization and time management skills. Demonstrated ability to direct activities of computer operations. Managerial Skills. Supervisory ability. Demonstrated tact, and judgment. Ability to analyze and improve system. Ability to communicate effectively, verbally and in writing. Versatility, creativity and initiative are expected.

HOW TO APPLY Please apply via the University of Toronto's job site: www.jobs.utoronto.ca. Please send any inquiries to citadmin@cita.utoronto.ca

No. 24862 (New)
Senior staff member/Project leader astronomical processing
JOINT INSTITUTE FOR VLBI IN EUROPE
Oude Hoogeveensdijk 4
Dwingeloo, Drenthe 7991 PD
The Netherlands
Tel: 0031 - 521 596 500
FAX: 0031 - 521 596 539
URL1: www.jive.nl
URL2: www.evbi.org
Email Submission Address: personnel@astron.nl
Email Inquiries: langevelde@jive.nl

Attention: Diana Verweij, HR officer

The Joint Institute for VLBI in Europe (JIVE) operates the central data processor (correlator) of the European VLBI Network (EVN). It is the focal point of EVN network and user support, providing various tools that facilitate access to and processing of the data product. JIVE is involved in a number of programmes to advance the future scientific capabilities of VLBI, including the development of e-VLBI and new correlator initiatives. Enhancements of the user facilities include further development of the archive portal, the proposal and scheduling tools, as well as data reduction software (ParseTongue). JIVE is also actively involved in projects related to the definition of the SKA. JIVE is located in Dwingeloo, in the Netherlands, at the headquarters of ASTRON, which is the host institute for JIVE. Further information regarding JIVE and the EVN can be obtained from www.jive.nl and www.evbi.org.

We invite applications for a senior staff position. The responsibilities of this position could include: • Take the lead on an international project on radio-astronomy data reduction software • Carry out VLBI-related astronomical research • Supervise a small team of scientific programmers working on algorithm development as well as operational tools • Participate in international projects dealing with astronomical computing or radio-astronomy initiatives

The position requires a Ph.D. in astronomy or another relevant field. The position calls for an affinity with astronomical computing, including radio-astronomical data reduction tools. The successful applicant has thorough knowledge of radio-astronomy techniques, preferably VLBI, with a track record as an active radio-astronomer. Experience in supervising a small team, possessing good communication skills and experience with managing software projects is an advantage. Candidates who fulfil part of the above requirements and have the ambition to develop further in order to fit the above profile are also encouraged to apply. Applicants of any nationality are eligible for this position. The appointment is offered for a one-year trial period, after which time the position would become permanent. The appointee will be in the formal employ of the Netherlands Organization for Scientific Research (NWO). The position carries a competitive salary plus an excellent package of secondary benefits, including relocation expenses.

Please send your application to: Ms Diana Verweij, Joint Institute for VLBI in Europe, Postbus 2, 7990 AA Dwingeloo, The Netherlands, personnel@astron.nl

Applications should include a CV, together with three letters of reference, which may be sent separately. All application materials should arrive by 15 October 2008, mentioning ref. No JIVE2008/06. Responses are preferred by e-mail. Further information can be obtained from Dr. Huib van Langevelde (langevelde@jive.nl, +31-521-596515).

No. 24781
Program Director
NATIONAL SCIENCE FOUNDATION
4201 Wilson Blvd.
Arlington, VA 22230
USA
Tel: 703-292-4895
FAX: 703-292-9034
URL1: http://www.nsf.gov/publications/vacancy.jsp?org=AST&nsf_org=AST
Email Submission Address: efriel@nsf.gov

Attention: Dr. Eileen Friel, Executive Officer

DIVISION OF ASTRONOMICAL SCIENCES National Science Foundation, Arlington, VA

The National Science Foundation is seeking qualified candidates for the position of Program Director in the Division of Astronomical Sciences (AST), Directorate for Mathematical and Physical Sciences, Arlington, VA. The candidates selected for these positions will have responsibility for coordination of the merit review of proposals, coordination and management of grants programs and projects involving instrumentation and technology development, review and

administration of projects involving the design and development of future facility-class instruments or observing capabilities, and oversight and management of major astronomical observational facilities supported by the Division.

Program directors are expected to bring their scientific expertise to the activities of the Division, and to serve as a liaison between the astronomical community and NSF, disseminating information about NSF and Division activities and opportunities. There are opportunities to participate in Foundation or Directorate-wide activities in areas of education, facilities management, strategic planning and program development. Candidates are expected to work with the astronomical research and education community to broaden the diversity of participants in NSF programs.

All areas of astronomical expertise will be considered, but there is need particularly in the area of facilities management and of management of programs with a focus on education and workforce development. Multiple positions are available and will be filled on a permanent and/or rotator basis beginning immediately and continuing through Fall 2009. Applicants must have a Ph.D. or equivalent experience in astronomy, astrophysics, or a closely related field, plus six or more years of successful research, research administration, and/or managerial experience beyond the Ph.D.

Individuals interested in applying for these vacancies should submit a resume to either http://www.nsf.gov/about/career_opps/ad_talent_inventory.jsp for Permanent positions or http://www.nsf.gov/about/career_opps/rotator_talent_inventory.jsp for Rotator positions. In addition, please send your resume to Dr. Eileen D. Friel, AST Executive Officer at efriel@nsf.gov.

NSF is an Equal Opportunity Employer. The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. If you need a reasonable accommodation for any part of the application and hiring process, please notify the point of contact listed on this vacancy announcement.

No. 24789

Director of the Isaac Newton Group of Telescopes

ISAAC NEWTON GROUP

Tel:

URL1: [STFC website \(http://www.stfc.ac.uk\)](http://www.stfc.ac.uk)

URL2: [ING website \(http://www.ing.iac.es/\)](http://www.ing.iac.es/)

Email Submission Address: pms@stfc.ac.uk

Attention: Personnel Management Section

The STFC is seeking a Director for the Isaac Newton Group of telescopes (ING) for a 3-5 year fixed-term appointment, based on La Palma, Canary Islands, Spain. The ING consists of the 4.2-m William Herschel Telescope, the 2.5-m Isaac Newton Telescope, and the 1.0-m Jacobus Kapteyn Telescope and is operated on behalf of the UK Science and Technology Facilities Council, the Nederlandse Organisatie voor Wetenschappelijk Onderzoek, and the Instituto de Astrofísica de Canaria. These 3 have entered into collaborative agreements for the operation of and the sharing of observing time on the ING telescopes. Oversight of the ING is provided by the ING Board. The new Director will be responsible for the successful introduction of the next generation of instrumentation projects for the ING. On a day-to-day basis they will be responsible for planning and executing the approved programme within policy and resource guidelines. They will also be accountable to the CE of STFC, for the efficient and proper use of resources. The ability to speak Spanish is highly desirable but intensive language training can be provided. They should hold a current clean driving licence since the job requires regular travel between the operations site and the sea-level office, for which medical clearance will also be required.

More information and a full job description is on our websites at <http://www.stfc.ac.uk> and <http://www.ing.iac.es/> Applicants must complete the on line application form (available on both websites).

Closing date 23rd September 2008 Interviews 23rd October 2008 (these dates are not negotiable).

No. 24812

Deputy Director/Head of Science

GEMINI OBSERVATORY

Tel:

URL1: www.gemini.edu

Email Inquiries: gemini-jobs@gemini.edu

Attention:

The GEMINI OBSERVATORY is seeking a senior astronomer for the position of DEPUTY DIRECTOR/HEAD OF SCIENCE. The successful applicant will be responsible for assisting the Director of the Observatory in duties dealing with internal and external affairs. This position has the top-level responsibility of ensuring that the scientific mission of the Observatory is fulfilled. The position is located in La Serena, Chile and represents the Director at Gemini –South.

This position will assist the Director in the strategic and long-term planning of observatory affairs. As Head of Science, the Deputy will advise the Director on science strategy, including monitoring observatory science productivity and impact and fostering strategic scientific use of the Gemini telescopes and instruments. This position will advise the Director on observatory science policy and relevant scientific matters. As Head of Science, the position will promote Gemini science results and capabilities; promote Gemini science staff research; and lead the tenure process for tenured-track science staff.

Ph.D. astronomers with the ability to communicate with a variety of Board members, oversight and advisory committee members, and users throughout the Gemini partnership are encouraged to apply. The candidate should have several (at least 10) years experience as a research scientist; several years experience working in a leadership position in an observatory, a national laboratory environment or an equivalent organization. The desired starting date for the position is mid-2009. The appointment is at the tenure-track, tenured level or as a senior scientist. The appointment is based in La Serena Chile.

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 30, 2008 and will continue until the search has concluded.

EOE/AA

No. 24823 (New)

IT Specialist (Data Specialist)

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

60 Garden Street

MS 17

Cambridge, MA 02138

USA

Tel:

URL1: <http://cfa-www.harvard.edu/hr/postings/28-35.html> (View the complete job vacancy announcement for further information and requirements)

Email Submission Address: saoresumes@cfa.harvard.edu

Email Inquiries: saoresumes@cfa.harvard.edu

Attention: Recruiter #461, Job #28-35

IT Specialist (Data Specialist)

This is a Trust Fund, Temporary position (not to exceed two years, with possibility of conversion to an Indefinite Position). The individual will provide computer support to the Chandra Science Data Systems group. They will also support the x-ray observing orbiting space telescope, data analysis system and the Chandra Catalogs. The individual will use components of CIAO (CIAO tools, ChIPS, Sherpa) to help users; work with team to design, test, maintain, and support software; develop, update, and maintain web-based and command line-based material for data analysis related projects; They will also support the Chandra outreach program with computer demonstrations and hands-on sessions.

Please send resumes, with education, software, and research experienced outlined, to: Recruiter #461, Job #28-35, Smithsonian Astrophysical Observatory, 60 Garden Street, MS-17, Cambridge MA 02138; or email to: saoresumes@cfa.harvard.edu Please note that this email address is for resume/application materials only. We are an equal opportunity employer, committed to diversity in our workplace.

No. 24866 (New)

Data Analyst/Telescope Observer/Research Assistant

UNIVERSITY OF VIRGINIA

P.O. Box 400325

Charlottesville, VA 22904-4325

USA

Tel: 1 434-924-4893

FAX: 1 434-924-3104

URL1: <http://www.astro.virginia.edu> (Department Website)

URL2: <http://www.astro.virginia.edu/research/observatories/> (Observatories Website)

Email Submission Address: srm4n@virginia.edu

Email Inquiries: srm4n@virginia.edu

Attention: Steven Majewski, Michael Skrutskie, Professors of Astronomy

Applications are invited for a full time research support position for applicants at the BA/BS degree level. The primary duties will be to conduct spectroscopic observing programs using the FOBOS instrument on the Fan Mountain 40-inch telescope and to analyze these data for research on Milky Way stellar populations. In addition, the applicant will also spend some time conducting near-infrared imaging and spectroscopy using the Fan Mountain 31-inch telescope, and may assist with telescope observing at other sites, particularly those facilities accessed by the UVa community at Apache Point Observatory, Steward Observatory, Mount Hopkins and Mount Graham. The starting date is negotiable; we are particularly interested in qualified applicants who can take up the position in the next few months.

Applicants should have at least a BA/BS degree in Physics or Astronomy as well as basic computer skills, including programming ability (C, C++ or Fortran) and familiarity with the UNIX/LINUX environment and IRAF or IDL. Previous experience with optical/near-infrared observing and data reductions would be especially useful. Pay level will be commensurate with experience.

The application should include a curriculum vitae, a publication list, a statement of research interests, and three independently-sent letters of reference. Review of applications will begin on Nov 1 and will continue until the job is filled.

Application material may be submitted by regular mail or via email to the addresses above. The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of underrepresented groups.

No. 24922 (New)

Operations Manager for Near Earth Object Surveillance Satellite (NEOSSat)

UNIVERSITY OF CALGARY

University of Calgary

2500 University Drive NW

Calgary, Alberta T2N 1N4

Canada

Tel: 403-220-2291

FAX: 403-284-0074

Email Submission Address: ahildebr@ucalgary.ca

Email Inquiries: ahildebr@ucalgary.ca

Attention: Alan Hildebrand, Canada Research Chair in Planetary Science

An Operations Manager is sought for the Near-Earth Space Surveillance (NESS) project's use of the Near-Earth Object Surveillance Satellite (NEOSSat). This spacecraft is a dual use mission between the Canadian Space Agency and Defence Research and Development Canada with launch currently planned early in 2010. The successful candidate will work at the NESS Data Operations Centre in the Department of Geoscience at the University of Calgary.

Professional activities and responsibilities of the Operations Manager will include evaluating all mission observation scenarios using STK (and other as necessary) software, evaluating follow-up intervals for asteroid discoveries, establishing collaborations to form a ground-station, astrometric, follow-up network (and being qualified to use the University of Calgary's telescopes), establishing data archiving and reporting procedures and an alternate data processing site, and supporting the Mission Planning System development and operations at Defence Research and Development Canada Ottawa. Strong computer skills are required; previous experience with AGI's STK software and/or experience with asteroid searching will be assets. Coordinating simultaneous asteroid observations with other spacecraft may also be required.

This position requires a skill set between that of a planetary scientist experienced with asteroid searching and small-body orbital dynamics, and that of a systems/aerospace engineer experienced with spacecraft operations and control. The successful candidate must be able to handle at least two urgent situations simultaneously, and must be able to manage the spacecraft and conduct asteroid search observations independently. Original research is encouraged during the conduct of this position's responsibilities, and the successful candidate will be invited to join the NESS project science team. The successful candidate will be able to productively interact with the science team members and the mission partners, and will have a strong commitment to personal integrity and responsibility. The annual salary for the position will initially be \$68,000.00/year. The University of Calgary is situated within an hour of the Front Ranges of the Canadian Rockies. The city of Calgary is one of the fastest growing cities in Canada and is widely recognized for its excellent quality of life.

Applicants should submit curriculum vitae, list of publications, statement regarding why they wish to manage operations for the NESS project/NEOSSat spacecraft, and a list of three references to:

Dr. Alan Hildebrand, Department of Geoscience, University of Calgary, 2500 University Drive NW, Calgary, Alberta, Canada T2N 1N4 Telephone: 403-220-2291; Fax: 403-284-0074 E-mail: ahildebr@ucalgary.ca

The deadline for applications is midnight, September 30, 2008. The anticipated start date is in vicinity of November 1, 2008. All qualified candidates are encouraged to apply, especially Canadians and permanent residents. The University of Calgary respects, appreciates and encourages diversity.

No. 24934 (New)
Senior Programmer Analysts - NASA/GSFC
SP SYSTEMS, INC.
7500 Greenway Center Drive, Suite 850
Greenbelt, Maryland 20770
USA

Tel:
FAX: 301-614-1328
Email Submission Address: sali@sp-systems.com
Email Inquiries: sali@sp-systems.com

Attention: S. Ali, Manager, Human Resources

SP Systems is looking for Senior Programmer Analysts to work within the Suzaku and Swift processing data center, co-located with the High Energy Astrophysics Science Archive Research Center (HEASARC) at the NASA Goddard Space Flight Center (GSFC) in Greenbelt, Maryland. Suzaku is a joint X-ray astronomy mission between the US and Japan. Swift is a US Gamma-ray burst chasing satellite. The support the HEASARC provides for missions include: software, data and calibration standards, data processing, and a data archive.

Swift Support (Job ID 2008-018) Duties: Operate and maintain a real-time data processing system for Swift satellite data. Incorporate new functionality into new versions of the data processing software. Coordinate with missions operations center and data archives on operations and data formats. Reprocess archival data and deliver to archives. Maintain web interface for making the data publicly available.

Suzaku Support (Job ID 2008-019) Duties: Support and development for existing pipeline processing for Suzaku. Install remotely the Suzaku pipeline at the Japan data center. Maintain the Suzaku observation logs and the data Level 0. Software development for Suzaku as required. Help with the user support. Maintenance and support of Swift existing software to translate telemetry to FITS. Act as backup for Swift pipeline processing.

Qualifications: A Bachelor's degree or higher in Physics or Astronomy with at least 3-5 years of experience in software development in a Unix environment. Experience in C/C++, Object Oriented Perl, and Bourne Shell. Excellent interpersonal skills. Ability to address problems on short time scales and under pressure. Experience with High Energy Astrophysics software packages and data standards, especially FITS, Ftools and XANADU.

Qualified candidates should send their resume with salary requirements (please reference the Job ID and Position Title in the subject line) to sali@sp-systems.com, fax to (301) 614-1328 or mail to:

SP Systems, Inc. 7500 Greenway Center Drive, Suite 850 Greenbelt, MD 20770 Attn: Human Resources

SP Systems is an Equal Opportunity Employer.

No. 24765
SDSS-III Observer
APACHE POINT OBSERVATORY
Apache Point Observatory
POB 59
Sunspot, NM 88349
United States
Tel: 575-437-6822
FAX: 575 434-5555

Attention: Mark Klaene, Site Manager

QUALIFICATIONS: We seek individuals with a Bachelor's degree in Astronomy or equivalent academic background, and eight years of related experience, Master's or PhD preferred. All degreed applicants with appropriate experience and strong scientific motivation will be considered. Relevant experience includes hands-on telescope operation (with attendant mechanical and computer expertise); proficiency in Unix/Linux, TCL, IDL, C, and IRAF preferred; Imaging and spectroscopic data reduction and CCD instrumentation and electronics. Unix programming skills are desirable.

JOB DESCRIPTION: The Sloan Digital Sky Survey-III (SDSS-III) and New Mexico State University are seeking a technical and data oriented astronomer for a position as SDSS-III Observer to conduct Survey observing at Apache Point Observatory (APO). SDSS-III is a multi-component extension to the SDSSII: Marvels, an exoplanet search program utilizing newly developed precision interferometer from the University of Florida to search 11,000 stars for Jupiter size planets; BOSS, an update to the SDSS-II spectrograph to search for Baryon Oscillations and test for dark energy and cosmic acceleration theories; Apogee, a new Near IR spectrograph from the University of Virginia to probe 100,000 stars around the galactic center; and Segue-2; which is a follow-up to the SDSS II, and will map 250,000 stars in the outer Milky Way. Observers are full scientific participants in the SDSS III; they are provided opportunities to undertake research programs and to take advantage of the SDSS-III collaboration's network of scientific effort.

Responsibilities include nightly operation of SDSS telescopes and instruments, monitoring the data streams and system performance, evaluating data quality and observing efficiency, and making decisions about observing plans. Work entails a non-standard work schedule, including daytime evaluation of system performance and planning of future observations.

BENEFITS OFFERED: Group medical and hospital insurance, group life insurance, long-term disability insurance, state educational retirement, worker's compensation, sick leave, annual leave and unemployment compensation. Opportunity for educational advancement.

DEADLINE: Applicants should send letter of interest, unofficial transcripts of highest degree earned, and curriculum vitae (naming three references), hardcopy only (e-mail submissions will not be accepted). Review of applications will begin July 15, 2008 and will continue until position is filled. REPLY TO: Mark Klaene Apache Point Observatory (APO) P.O. Box 59 Sunspot, NM 88349-0059

Employment is contingent upon funding and verification of individual's eligibility for employment in the US. NMSU is an EEO/AA employer. All offers of employment, oral and written, are contingent on the university's verification of credentials and other information required by federal law, state law, and NMSU policies/procedures, and may include the completion of a criminal history check.

No. 24774 (New)
IT Specialist (Software Developer)
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden St
MS 17
Cambridge, MA 02138
USA
Tel:
URL1: <http://www.cfa.harvard.edu/hr/postings/28-21.html> (complete vacancy announcement for this position)

Email Submission Address: saoresumes@cfa.harvard.edu
Email Inquiries: saoresumes@cfa.harvard.edu

Attention: Recruiter #461, Job Posting #28-21

IT Specialist (Software Developer) Trust Fund (Non-Federal) \$52,927 to \$76,989/yr Salary commensurate with qualifications and experience.

The employee will develop digital library software and web user interfaces to support the Smithsonian/NASA Astrophysics Data System (ADS) services. The ADS is a 15 –yr-old project that has revolutionized access to astronomical literature. The successful candidate will join a dynamic team to help enhance and solidify the project's role as THE digital library portal for astronomers and astrophysicists. The employee will participate in the development, maintenance and upgrading of the ADS infrastructure and help plan, specify, and build the technologies needed to support the project's goal of ubiquitous access to the astronomical literature and related datasets.

Responsibilities include software design, development and testing, and user documentation. The primary responsibility is the development and support of the system software used by its search engine, user databases, and notification services. Including the implementation and deployment of a new web content management system, metadata and full-text search technologies, tools for personalization, and novel interfaces for visualizing information resources and datasets. Software development will take place in a UNIX environment. To view the complete vacancy announcement for this position and requirements for higher salary levels, go to <http://www.cfa.harvard.edu/hr/postings/28-21.html>

Submit resumes to Recruiter #461, referring to Job Posting #28-21, at the Smithsonian Astrophysical Observatory, 60 Garden Street, MS-17, Cambridge, MA 02138, or via email to saoresumes@cfa.harvard.edu The email address is for the submission of application materials only. Salary commensurate with qualifications and experience.

No. 24784
Astronomical software support position at ASTRON (Dwingeloo, The Netherlands)

ASTRON
Oude Hoogeveensedijk 4
Dwingeloo, The Netherlands 7991 PD
The Netherlands
Tel: +31521595100
FAX: +31521595219
URL1: www.astron.nl
URL2: www.jive.nl
Email Submission Address: personnel@astron.nl
Email Inquiries: morganti@astron.nl

Attention: Ms. Diana Verweij, Personnel officer

Astronomical software support position at ASTRON (Dwingeloo, the Netherlands)

ASTRON has a position available for astronomical software support. The selected candidate is expected to maintain the software environment for astronomers at ASTRON, and ensure that the most recent astronomical (and related) applications are available to staff and visitors. He/she will be the interface between the astronomy and support groups of ASTRON, JIVE and the ASTRON ICT division. He/she is expected to be familiar with radio astronomical software and Linux operating systems. He/she is also expected to be able to contribute to the development and implementation of new reduction algorithms in existing packages.

The selected candidate should have an astronomical background (at least a Masters degree in Astronomy, but ideally a PhD) and have some experience in working in a scientific environment. The candidate is expected to continue or further develop his/her astronomical research inside the Astronomy Group. The fraction of time available for research can be up to 30 %, depending on the background and qualifications of the candidate.

The astronomy group is heavily involved in the commissioning of LOFAR, and the Radio Observatory will exploit this facility and provide science support to the full user community. This next generation, low-frequency radio telescope will provide unique data in this relatively unexplored spectral window starting in 2009. ASTRON staff are active in all LOFAR key science projects.

The Radio Observatory also operates the Westerbork Synthesis Radio Telescope (WSRT). A Focal Plane Array system (APERture Tile in Focus - APERTIF) is being developed, in order to significantly expand the field of view, enabling new types of astronomical research. The WSRT also participates in the European and Global VLBI Networks (including e-VLBI). ASTRON has an international reputation for the design and construction of future radio telescopes (e.g. SKA), and is heavily involved in developing parallel and Grid computing techniques for radio astronomy.

ASTRON hosts the Joint Institute for VLBI in Europe (JIVE). ASTRON and JIVE staff are engaged in many frontline research areas: galaxy structure and evolution, the ISM and IGM, pulsars and compact objects, AGN evolution and studies of the magnetic universe, large radio continuum and HI surveys, deep fields and gravitational lensing.

For more information see <http://www.astron.nl>.

The appointment is initially for two years and may be renewed for up to three years.

Letters of application (including a CV and a short research plan), plus 2 letters of reference should be sent to personnel@astron.nl. Applications will be considered starting 15 Sep 2008 and will continue until a suitable candidate is identified. The successful candidate will be in the formal employ of the Netherlands Organization for Scientific Research (NWO), at a salary scale commensurate with age and experience. Generous relocation expenses, excellent package of benefits and assistance with finding accommodation will be provided.

For further information contact: Dr. Raffaella Morganti, Head of the Astronomy Group (morganti@astron.nl)

No. 24811
Research Staff Member, Subject Area: Ballistic Missile Defense
INSTITUTE FOR DEFENSE ANALYSES
4850 Mark Center Drive
Alexandria, VA 22311-1882
USA
Tel: 703-578-2786
FAX: 703-845-2274
URL1: <http://www.ida.org>
Email Submission Address: mluhman@ida.org
Email Inquiries: mluhman@ida.org

Attention: Michael Luhman, Dr.

A challenging career opportunity now exists at the Institute for Defense Analyses (IDA) for an individual interested in a career in the operational test and evaluation of ballistic missile defense systems. Duties consist of analyzing the design, execution, and results of system tests to ensure effective operations under

real-world conditions. Your analyses will provide Office of the Secretary of Defense and Congressional leadership with independent assessments of system capabilities. The ballistic missile defense systems employ ground-, sea-, air-, and space-based platforms. Examples include Ground-Based Midcourse Defense, Patriot, Airborne Laser, Terminal High Altitude Area Defense, Aegis Ballistic Missile Defense, and Space Tracking Surveillance System. The position requires strong technical skills as well as the ability to speak and write effectively, think analytically, and work independently.

Candidates should have a PhD in a physical science, applied mathematics, or an engineering discipline. Experience in experiment/test design and/or computer programming/modeling and simulation is desirable. Applicants selected will be subject to a security investigation and must meet eligibility requirements for access to classified information. U.S. citizenship is required.

IDA is a non-profit corporation that administers three federally funded research and development centers to provide objective analyses of national security issues, particularly those requiring scientific and technical expertise, and conducts related research on other national challenges. IDA provides an environment that fosters innovation and collaboration, and enables a foundation for career growth and an opportunity to contribute to the security of the nation through technical analyses.

Interested applicants should send or e-mail a CV to the contact address given above. Applicants invited for an interview will be asked to provide undergraduate and graduate transcripts, writing samples, and three references. Employment start date is negotiable. Inquiries are welcome.

No. 24691

Remote Sensing Engineer

THE AEROSPACE CORPORATION

P.O. Box 92957

Los Angeles, CA 90009

USA

Tel: 310-336-5997

FAX: 310-563-2966

URL: <http://www.aero.org/careers/jobs/index.html> Group: Engineering and Technology Group

Email Submission Address: mary.c.melton@aero.org

Email Inquiries: david.k.lynnch@aero.org

Attention: Mary Melton

Group: Engineering and Technology Group Department: REMOTE SENSING DEPT Clearance Required: Secret

Duties: Design and develop remote sensing and astronomical instrumentation. Apply technical oversight and quality assurance to the development and maintenance of national asset spacecraft sensors. Participate in remote sensing data collects supporting astronomy and space situational awareness; reduce, analyze, and publish results of these collects. Conduct independent research.

Qualifications: Ph.D. in astronomy, physics or physical sciences, or engineering preferred. Some post-doctoral experience preferred. Program management skills desirable. Background in the design, fabrication, calibration, and operation of astronomical and remote sensing instrumentation very desirable. Experience in observational astronomy, infrared astronomy, radiometry, data analysis, also desirable. Must be able and willing to travel and work at altitude. Proven ability to carry out research and assigned tasks independently. Good communication and technical writing skills demonstrated through an extensive publication record. The ability to interact successfully in a multi-disciplinary environment that includes scientists, engineers, and military personnel. Proficiency in IDL, MatLab, Labview desirable. US citizenship a necessity since a security clearance will be required

Recruiter: MELTON, MARY Interest Category: Engineer State: California City: El Segundo

No. 24720

Faculty Position in Physics

WHEATON COLLEGE

501 College Ave.

Wheaton, IL 60187

United States

Tel: 630-752-5896

FAX: 630-752-7101

Attention: Dr. Stewart DeSoto, Chair, Physics Department

The Physics Department at Wheaton College (IL) invites applications for a tenure-track position starting in fall 2009; Ph.D. required; field of expertise open. Applicants must be committed to excellence in teaching and scholarship in a liberal arts environment. A successful candidate would establish an experimental, computational, or theoretical research program involving undergraduates. The College is located 25 miles west of Chicago near two national laboratories. File review begins 11/1/08. More information at http://www.wheaton.edu/HR/employment/openings_fac.php

Wheaton College is an evangelical Protestant Christian liberal arts college whose faculty and staff affirm a Statement of Faith and adhere to lifestyle expectations. The College complies with federal and state guidelines of nondiscrimination in employment. Women and minority applicants are encouraged to apply.

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