Job Register

The key to astronomy employment.

August 2005

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Large HTML File of All Jobs | PDF Copy | Back Issues | Jobs from Previous Months | NEW JOBS THIS MONTH

Search Ads Posted before April, 2003 | Search Ads Posted After April, 2003

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
Deputy 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 and paid for by the 15th 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

There is a publication charge of $114 per job announcement, per issue.

If payment is made by credit card, a discount of $5 is applied for each month of publication.

An additional $0.25 will be charged to each word over the 250 word limit.

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
FAX: 202-234-2560

The AAS is a small, scientific, non-profit organization.

The AAS Federal Identification number is 21-0735173.

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

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

Announcement Requirements

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

Jobs will not be published without the following:

(1) Indication that the vacancy is *bona fide* and that the position has not been promised to anyone;

(2) for first time publication, an application closing date that falls no earlier than the last day of the month of publication; and

(3) a check or appropriate billing information as described above.

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

Previously published jobs may be re-published in the current issue with an application closing date earlier than the last day of the current month.

The decision to run an ad without 30 days response time is left to the originators.

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

Submission

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

Frequency and Circulation

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

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

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

Member Notification

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

Jobs from Previous Months

(Note: Some jobs reposted from prior months may have closing dates during the current month. Readers shoud pay careful attention to the posted closing dates.)

No. 21634
Long Term Researcher
PERIMETER INSTITUTE FOR THEORETICAL PHYSICS
31 Caroline Street N.
Waterloo, Ontario N2L 2Y5
Canada
Tel: (519) 569-7600 x8531
FAX: (519) 569-7611
URL1: http://www.perimeterinstitute.ca
Email Submission Address: rmyers@perimeterinstitute.ca
Email Inquiries: rmyers@perimeterinstitute.ca

Attention: Rob Myers, Chair, Search Committee

COSMOLOGY AND PARTICLE PHYSICS POSITIONS AT PERIMETER INSTITUTE

Perimeter Institute for Theoretical Physics (PI) is launching an initiative to add groups in theoretical cosmology and elementary particle theory by hiring a number of long-term researchers (equivalent to faculty) in each of these fields. These groups will add to our existing strengths in string theory, quantum gravity, quantum information theory and foundations of quantum mechanics. We are seeking both established scientists who are international leaders of their fields and young scientists who show exceptional promise of becoming leaders.

The history, mandate and structure of PI are described on our web page at www.perimeterinstitute.ca presently; PI has 9 long-term researchers and 20 postdocs, plus 4 associates in shared positions with nearby universities and 6 long-term visitors. There are presently 12 graduate students, who are supervised by PI researchers through graduate programs at nearby universities, including University of Waterloo, University of Guelph, University of Western Ontario and McMaster University.

PI's long-term positions may also involve, subject to the agreement of all parties, a cross-appointment to a tenured or tenure track position at a neighboring university. All qualified candidates, of all nationalities, are encouraged to apply. Cosmologists may also be interested to apply to a joint PI/UW cosmology faculty position with the University of Waterloo: http://www.sci.uwaterloo.ca/physics/positions/astro-pi.html

Interested candidates should apply at: http://perimeterinstitute.ca/positions/longterm.php providing their C.V., publications list and research proposal. They should also arrange to have at least 4 letters of recommendation sent, according to the instructions on the online application. Although online applications are strongly preferred, applications, recommendations and inquiries may also be sent by email to ltr@perimeterinstitute.ca or by regular postal service to the address provided below. The deadline for applications is January 1, 2005, but applications received after that date will be considered until all positions are filled.

Perimeter has in addition ongoing searches in string theory, quantum information theory, quantum foundations and quantum gravity. In addition to these and other ongoing searches, PI is always pleased to consider inquiries from exceptional scientists in any area of theoretical physics for both long term and visiting positions. We encourage applications from all nationalities.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Address for mail applications: PASCOS Search Committee, Perimeter Institute for Theoretical Physics, 31 Caroline St. N., Waterloo, Ontario, CANADA N2L 2Y5.

No. 21813
Radio Astronomer
NAVAL RESEARCH LABORATORY
4555 Overlook Ave., SW
Building 2/Room 277
Washington, DC 20375
USA
Tel: 202-767-0668
FAX: 202-404-8894
Email Submission Address: namir.kassim@nrl.navy.mil
Email Inquiries: namir.kassim@nrl.navy.mil

Attention: Dr. Namir Kassim, Research Physicist

The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with experience in radio astronomy. The successful candidate will be expected to carry out innovative research programs using existing or planned low-frequency radio observations (e.g., with VLA, VLBA, Arecibo, GMRT, GBT). We seek candidates who would like to join an existing collaboration between NRL and Sweet Briar College to monitor for transient radio emission (e.g., the bursting transient GCRT J1745-3009) from Galactic and extragalactic sources.

NRL radio astronomers carry out a wide range of observational programs at the VLA, VLBA, and Arecibo Observatory, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today. With it, NRL scientists are beginning a sky survey of the northern hemisphere, the VLA Low-Frequency Sky Survey (VLSS). Inspired by the capabilities of the 74 MHz system, the Remote Sensing Division is overseeing the construction of the first elements in the Long Wavelength Array (LWA). When finished the LWA will provide wide-field imaging capabilities in the frequency range 20--80 MHz. The successful candidate will be expected to/have the opportunity to utilize these first elements for a variety of observations, including novel searches for radio transients.

Observational programs, such as a 74 MHz sky survey or ongoing 74 and 330 MHz Galactic center observations, including the transient monitoring program, are pursued both for their intrinsic astronomical interest as well as to help guide LWA calibration and imaging strategy and array configuration design. LWA will open a new window on the spectrum, with scientific

applications in virtually all areas of astrophysics.

The opportunity exists for the successful candidate to involve Sweet Briar College (SBC) students in his or her research, and to present a series of guest lectures during SBC astronomy courses. SBC is a liberal arts college for women located near the Blue Ridge Mountains in central Virginia, less than hour from UVA and NRAO-Charlottesville, 3 hours from NRAO-Green Bank, and 3 hours from NRL in Washington DC.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years, with a third year extension for satisfactory accomplishments in the second year. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Deadlines for submission to the NRC are 1 August 2005, 1 February 2006, and 1 May 2006. The current award stipend is $60,120.00 per year. US citizenship or legal permanent residency is required. Online applications can be submitted at http://www.national-academies.org/rap. For further information contact Dr. Namir Kassim at the above address. EOE/AAE.

No. 21815
Professorship Extragalactic Astrophysics
UNIVERSITY OBSERVATORY GOETTINGEN
Friedrich-Hund-Platz 1
Germany
Tel: +49 551 394095
FAX: +49 551 394583
URL1: http://www.physik.uni-goettingen.de/
(Faculty of Physics)
URL2: http://www.uni-sw.gwdg.de/
(University Observatory)
URL3: http://www.physik.uni-goettingen.de/verwaltung/dekanat/
(Deans Office)

Attention: Dean of the Faculty of Physics

The Faculty of Physics Georg-August-Universität Göttingen invites applications for a Professorship "Extragalactic Astrophysics" at the University Observatory to be filled by 1st April 2006.

The successful applicant must be able to document excellent international research work in the field of extragalactic astrophysics and to represent this field. Possible branches of research are, for example, as follows: creation and development of the universe, formation and dynamics of large- scale structures and galaxies as well as the signatures of black holes. Links to the field of stellar astrophysics are appreciated. The University Observatory is involved in modern large- scale telescopes and parallel computers.

The Faculty of Physics is planning to establish a research focus area with a promising future in astrophysics/particle physics. It is desirable for the successful applicant to collaborate in this research focus area.

The successful candidate should be able to teach the whole range of subjects of extragalactic astrophysics and he or she should also be involved in teaching the standard major and subsidiary physics courses of the Faculty.

The offer of this position is based on §25 of the Law on Higher Education of Lower Saxony (Nds.GVBl.2002, p. 286). Details can be given on request. Part-time employment may possibly be offered. If equally qualified, severely handicapped persons are given preference. Göttingen University endeavours to increase the proportion of female professors. Thus, qualified female scientists are expressly encouraged to apply.

Interested candidates should send their application, including a curriculum vitae, description of their teaching career, publication list and certificates no later than 2005, August, 31th. Dekan der Fakultät für Physik der Georg-August-Universität Göttingen, Friedrich-Hund-Platz 1, D-37077 Göttingen, Germany.

No. 21820
Assistant Professor (Tenure-Track) of Astronomy
FRANKLIN AND MARSHALL COLLEGE
Department of Physics and Astronomy
PO Box 3003
Lancaster, PA 17604
USA
Tel: 717 391 3809
FAX: 717 358 4474
URL1: http://www.fandm.edu/physics.xml
(Physics and Astronomy page)
URL2: http://www.fandm.edu/astronomy.xml
(Astronomy page)
Email Inquiries: gadkins@fandm.edu

Attention: Greg Adkins, Professor of Physics and Chair

Applications are invited for a tenure-track position in astronomy starting in fall 2006 at the rank of assistant professor in the Department of Physics & Astronomy, Franklin & Marshall College.

Candidates must demonstrate substantial commitment to undergraduate teaching, with prior experience designing and teaching undergraduate astronomy and astrophysics courses preferred. A vigorous research program is also required which can involve undergraduate students in publishable research projects. Available facilities include access to the NURO (Flagstaff) 0.8-m telescope with CCD camera, a 0.4-m telescope with CCD camera plus 11-inch Clark refractor sited near campus, and six 8-inch Celestron telescopes with CCDs and indoor PC control on the top-floor balcony of the science building. Recent projects have included work at the Cerro Tololo Inter-American Observatory, the Arecibo Observatory, and the Keck Observatory. See http://www.fandm.edu/astronomy.xml for further details.

A Ph.D. in astronomy or astrophysics is required. A complete application package must include a statement of teaching philosophy and research interests, a description of possible undergraduate research projects, curriculum vitae, and copies of graduate and undergraduate transcripts. Letters of recommendation (at least three) should be sent directly to the address

above. Review of completed applications will begin on October 1.

Franklin and Marshall is a selective private liberal arts college with 1,850 students located in Lancaster, Pennsylvania, a small city of 50,000 about 1-1/2 hours from Baltimore and Philadelphia. The college is committed to cultural pluralism through the hiring of women and minorities and encourages all interested individuals to apply. EOE/AA.

No. 21827
Postdoctoral Position in High Energy Astrophysics
UNIVERSITY OF IOWA
214 Van Allen Hall
Iowa City, IA 52242
USA
Tel: 319-335-1690
FAX: 319-335-1753
URL1: http://www.physics.uiowa.edu/
Email Submission Address: christine-stevens@uiowa.edu

Attention: Christine Stevens, Dept. of Physics and Astronomy

Postdoctoral Position in High Energy Astrophysics University of Iowa

The University of Iowa has an immediate opening for a postdoctoral research scientist to work in high-energy astrophysics in collaboration with Prof. Philip Kaaret. The successful applicant will work on the gamma-ray observatory VERITAS, including writing off-line data analysis software, and will analyze data from X-ray observatories. Candidates must hold a Ph.D. in physics or astronomy and have experience in gamma-ray or X-ray astronomy. Extensive travel to the VERTIAS site in Arizona will be required. The appointment will be for one year initially, subject to the availability of funding, and may 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. Applicants should also make arrangements for three letters of recommendation to be sent directly. Electronic submission in pdf or plain text format are acceptable. Letters of recommendation can be sent via e-mail. Review of applications will be begin on September 5th and continue until the position is filled. The University of Iowa is an equal opportunity employer. Women and members of minority groups are strongly encouraged to apply.

No. 21828
Radio Astronomy Department Head
NATIONAL ASTRONOMY & IONOSPHERE CENTER/ARECIBO OBSERVATORY
CORNELL UNIVERSITY
502 Space Sciences Bldg.
Ithaca, NY 14853-6801
USA
Tel: 607-255-3735
FAX: 607-255-8803
URL1: http://www.naic.edu
Email Submission Address: jtm14@cornell.edu

Email Inquiries: jtm14@cornell.edu

Attention: Dr. Robert L. Brown, Director

The National Astronomy and Ionosphere Center (NAIC) is seeking exceptionally well-qualified applicants for the position of Radio Astronomy Department Head at the Arecibo Observatory in Arecibo, Puerto Rico. Applicants with extensive research experience in any field of astronomy that can be effectively pursued with the Arecibo telescope will be considered. This is an appropriate position for a mid-career person to develop further his/her leadership skills and to develop experience in the management of scientific research.

The Radio Astronomy Department at the Arecibo Observatory includes a staff of 15 researchers, postdocs and long-term visiting scientists. At the Arecibo Observatory, the NAIC staff scientists work in a team environment to advise visiting scientists on all aspects of their observing programs, and to implement improvements to the Observatory instruments, observing techniques and signal processing facilities. Working with the staff and the user community, the department head formulates the scientific vision for development of the Observatory astronomy program, engages the scientific community in establishing priorities for new ventures, and seeks to realize that vision by forging partnerships with academic researchers. The department head participates actively in U.S. and international scientific meetings and topical symposia promoting the scientific opportunities and achievements of the Arecibo Observatory.

The Department Head is expected to maintain a strong program of personal discretionary research; he/she is encouraged to spend 50% of the time on this endeavor. All NAIC scientific staff members have competitive access to the 305-m diameter Arecibo telescope, its suite of receivers spanning the frequency range from 300 MHz to 10 GHz, and its backend signal processors capable of analyzing bandwidths up to 800 MHz. A Mark 5 VLBI system is used for ultra-wideband interferometric observations with other large telescopes in the US and Europe. The newly-operational, multibeam system, the Arecibo L-Band Feed Array (ALFA), and the community-based legacy surveys it supports, provides a wealth of unique opportunities for collaborative scientific engagement with the more than 100 students and scientists who are conducting ALFA survey observations at Arecibo. The Radio Astronomy Department Head is an employee of Cornell University, the institution that manages NAIC on behalf of the National Science Foundation. As such, he/she will be paid a salary competitive with other prestigious research universities, one that adequately recognizes the responsibilities of the position. The individual will fully participate in the Cornell benefits program. For a suitably qualified individual, an appointment as an adjunct faculty member of the Cornell astronomy department may be appropriate. Collaborative interaction with U.S. academic researchers is an important part of the job and for this reason a generous travel allowance is provided.

A Ph.D in astronomy or a related field, together with at least 7 years research experience in astronomy and a substantial record of published research achievements, is required. Please send a complete curriculum vita including academic, professional and personal data, a research plan and three letters of reference to: Director, National Astronomy and Ionosphere Center, 502 Space Sciences, Cornell University, Ithaca, NY 14853-6801. EOE/AAE. The deadline for receipt of applications and all supporting materials is September 30, 2005. For further information about the NAIC Arecibo Observatory see http://www.naic.edu.

No. 21831
University Lecturer in Astrophysics
UNIVERSITY OF OXFORD
Denys Wilkinson Building
Keble Road
United Kingdom
Tel: 44 1865 273335
FAX: 44 1865 273390
URL1: http://www-astro.physics.ox.ac.uk
(Astrophysics Home page)
Email Submission Address: sec@astro.ox.ac.uk

Attention: Mrs L Walker

The Department of Physics proposes to appoint a University Lecturer in Astrophysics with effect from January 1, 2006 or as soon as possible thereafter. The successful candidate will be offered a Tutorial Fellowship in Physics by New College. The combined University and College salary will be according to age on a scale up to £45,707 per annum (as at 1 Aug 2004) and further allowances are payable by the college.

We are seeking a theoretical astrophysicist and preference may be given to candidates with a strong record of achievement in astrophysical cosmology. However, well qualified candidates in other areas are encouraged to apply. Oxford Astrophysics features a wide-ranging research programme including studies of galaxy formation and evolution; stellar populations and galaxy dynamics; active galaxies, galaxy and quasar surveys; large-scale structure, star formation, stellar evolution, binary stars and supernovae; cosmic microwave background radiation; galaxy formation; dark matter and early universe theory. We have developed an astronomical instrumentation group building optical and infrared integral field spectrographs and experiments in radio and millimetre astronomy. We are building SWIFT an AO assisted, red optimised integral field spectrograph and playing a significant role in constructing infrared spectrographs for the 8m Subaru telescope (FMOS) and the ESO VLT (KMOS). We are playing a significant role in the CLOVER microwave background experiment to be located in the Antarctic and have recently joined the CBI and QUIET telescope collaborations. We are involved in the next generation of extremely large telescopes at both optical (ELT) and radio (SKA) wavelengths. The department hosts the UK Gemini Support Group and the houses the Beecroft Institute for Particle Astrophysics and Cosmology (BIPAC) which brings together particle physicists, theoretical physicists and astrophysicists. The department benefits from substantial computing facilities including a 128 node BEOWULF system, dedicated to theoretical astrophysics.

Applications including a statement of research interests and teaching experience, curriculum vitae, bibliography, and the names and addresses of three referees (not more than two from the same institution) should be sent to arrive no later than 31 August 2005, quoting reference DB05003. Questions about the post can be addressed to Professor Roger Davies (rld@astro.ox.ac.uk) or Professor Joseph Silk (silk@astro.ox.ac.uk). Candidates should arrange for letters of reference to be sent to the same address to arrive by the closing date.

Electronic applications are acceptable in PDF, PS, or MS Word formats. Applications will be acknowledged but not reference letters.

Further Particulars of the post, including application details may be obtained from http://www-astro.physics.ox.ac.uk/

The University is an Equal Opportunity Employer

No. 21834
Post Doctoral Researcher in Interstellar Medium Studies
UNIVERSITY OF GEORGIA
University of Georgia
Athens, GA 30602
USA
Tel: 706 542 2860
FAX: 706 542 2492
URL1: http://www.physast.uga.edu
Email Submission Address: rls@hal.physast.uga.edu
Email Inquiries: rls@hal.physast.uga.edu

Attention: Dr. Robin Shelton, Assistant Professor

The University of Georgia, Department of Physics and Astronomy is searching for a postdoctoral research associate to work on the hot interstellar medium. The research associate will collaborate on studies of the hot gas in supernova remnants, the Local Bubble, and the Galactic halo. The work involves running hydrodynamic simulations of shock-heated gas, preparing spectral predictions, and, possibly, comparing with ultraviolet and X-ray observations. Previous experience writing and running hydrodynamic or spectral software codes would greatly aid the postdoc in his/her efforts, as would previous experience studying the hot interstellar medium. Experience working with ultraviolet or X-ray observations of diffuse gas would be helpful but is not required.

Applicants should have a PhD in astronomy or physics prior to beginning the associateship. Interested individuals should send a letter of application, curriculum vitae, publication list, statement of research interests, and contact information for three references to Dr. Robin Shelton. Applications are due by August 30, 2005.

For more information, feel free to contact Dr. Shelton at rls@hal.physast.uga.edu. We especially encourage applications from minorities and women. AAE/EOE. The University of Georgia is an EEO/AA institution.

No. 21837
Resident Astronomer
INSTITUTO DE ASTRONOMíA, OBSERVATORIO ASTRONóMICO NACIONAL, UNAM
P.O. Box 439027
San Diego, California 92143
USA
Tel: 646)1744580 ext. 301
FAX: 646)1744777
URL1: http://www.astrosen.unam.mx
URL2: http://www.astroscu.unam.mx
URL3: http://haro.astrossp.unam.mx

Email Submission Address: jefatura@astrosen.unam.mx
Email Inquiries: jefatura@astrosen.unam.mx

Attention: David Hiriart, Head of the Observatorio Astronomico Nacional

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The Instituto de Astronomía at the National Autonomous University of Mexico (IA-UNAM) offers at least one 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. Mexico is a junior partner in the 10.4m Gran Telescope Canarias nearing completion in the Canary Islands.

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 100,000, 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.astrossp.unam.mx.

Applicants should have a PhD in astronomy or a closely related field. Candidates should also have experience in observational astronomy and, very preferably, considerable observing experience. 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 non spanish-speaking candidates who later learn Spanish at the many facilities available locally. Both recent recipients of a doctorate as well as more experienced observers will be considered. Good teamwork skills will be considered a valuable asset.

To apply, interested candidates should send a letter of application, including a description research interests and experience, curriculum vitae, and three letters of reference. Reviews will start August 31st. but we will continue to receive applications until positions are filled.

No. 21841
Program Manager, Astronomical Facilities
NATIONAL SCIENCE FOUNDATION
4201 Wilson Blvd.
Arlington, VA 22230
USA
Tel: 703-292-4895
FAX: 703-292-9034
Email Submission Address: efriel@nsf.gov

Attention: Eileen Friel, Executive Officer, AST

DIVISION OF ASTRONOMICAL SCIENCES National Science Foundation, Arlington, VA

The National Science Foundation is seeking a qualified candidate for the position of Program Director in the Division of Astronomical Sciences (AST), Directorate for Mathematical and Physical Sciences. The candidate selected for this position will have primary responsibility for the oversight and management of one or more major astronomical observational facilities supported by the Division. Responsibilities involve planning and budgeting for the facility; reviewing and approving program plans, budgets, contracts, etc; monitoring the performance of the managing organization; and serving as the principal contact for administrative and programmatic matters concerning the facilities. Activities also include planning, budget development, the preparation of written material about the research supported by the Division, and interactions with other NSF programs, Federal agencies and organizations. Final programmatic and management responsibility will depend on the expertise and qualifications of the candidate, but the Division is particularly interested in applicants with experience in optical and infrared astronomy. 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. Incumbents are expected to work with the astronomical research and education community to broaden the diversity of participants in NSF programs. Program Directors are encouraged to participate in ongoing long-range and strategic planning and program development within the Astronomy Division. There are opportunities to participate in Foundation or Directorate-wide activities in areas of education, facilities management, strategic planning and program development. The position will be filled on a permanent basis to commence in late 2005. The salary range, which includes locality pay adjustment, is from $88,369 to $137,713 per annum. 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.

Announcement E20050083 with position requirements and application procedures, is located on the NSF Home Page at www.nsf.gov/jobs. Applications may be submitted via e-mail to lcodario@nsf.gov or send all application material to National Science Foundation, Division of Human Resource Management, 4201 Wilson Boulevard, Room 315, Arlington, VA 22230. Attn: Announcement Number E20050083. Applicants should submit a resume or application of your choice, up to three letters of recommendation, and a narrative statement that addresses your background and/or experience related to the position to the address above by September 1, 2005. Telephone inquiries may be referred to Lisa Codario at 703-292-4351. For technical information, contact Dr. Eileen D. Friel, AST Executive Officer, 703-292-4895. (Hearing impaired individuals may call TDD 703-292-8044).

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. 21843
Program Director
NATIONAL SCIENCE FOUNDATION

4201 Wilson Blvd.
Arlington, VA 22230
USA
Tel: 703-292-4895
FAX: 703-292-9034
Email Submission Address: efriel@nsf.gov

Attention: Eileen Friel, Executive Officer, AST

DIVISION OF ASTRONOMICAL SCIENCES National Science Foundation, Arlington, VA

The National Science Foundation is seeking a qualified candidate for the position of Program Director in the Division of Astronomical Sciences (AST), Directorate for Mathematical and Physical Sciences, Arlington, VA. The candidate selected for this position will have primary responsibility for coordination of the merit review of proposals, formulation of recommendations for funding, management of program budgets, and award administration for the grants program, particularly in the area of unrestricted research grants. Although all areas of astronomical expertise will be considered, the Division is particularly interested in candidates with knowledge and experience in the area of extragalactic astronomy and cosmology and with a broad interdisciplinary perspective. Activities also include planning, budget development, the preparation of written material about the research supported by the Division, and interactions with other NSF programs, Federal agencies and organizations. 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. Program Directors are encouraged to participate in ongoing long-range and strategic planning and program development within the Astronomy Division. 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. The position will be filled on a temporary basis to commence in late 2005. The salary range, which includes locality pay adjustment, is from $88,369 to $137,713 per annum. 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 this vacancy should submit a resume or any application of your choice to the National Science Foundation, Division of Human Resources Management, 4201 Wilson, Blvd., Arlington, VA 22230, Attn: E20050084-Rotator. In addition, you are encourages to submit a narrative statement that addresses your background and/or experience related to the Program to the address above by September 1, 2005. Telephone inquiries may be referred to executive and Visiting Personnel Branch at 703-292-8755. For technical information, contact Dr. Eileen D. Friel, AST Executive Officer, 703-292-4895. (Hearing impaired individuals may call TDD 703-292-8044).

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. 21846
Executive Officer, American Astronomical Society
THE AMERICAN ASTRONOMICAL SOCIETY
60 Garden Street
MS-19
Cambridge, MA 02138
Tel:

Attention: Robert P. Kirshner, AAS Executive Search Committee

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Executive Officer, American Astronomical Society

The American Astronomical Society, the major organization of professional astronomers in the United States, Canada, and Mexico seeks an Executive Officer. The job of the Executive Officer is to help the AAS achieve its goal of promoting the advancement of astronomy and closely related branches of science. The AAS runs scientific meetings, publishes the leading journals in the field, and undertakes programs in public policy and education on behalf of its 7000 members. The Executive Officer oversees the business activities of the Society and is responsible for the smooth functioning of the AAS in accord with the policies and guidance provided by the Council of the Society. The annual budget of the AAS is approximately $9 million. The Executive Officer leads a staff of 11 in the AAS office, located in Washington, D.C. The ideal candidate will have a Ph.D. or equivalent in astronomy or a closely related field, experience in management, the ability to work independently, the ability to organize and lead others, and must have effective written and verbal communication skills. An understanding of financial management, familiarity with scientific publishing, and the ability to assist the Council in developing plans for the activities and finances of the Society are important qualities of the person we seek.

Applications are welcomed from qualified candidates. Please send an application letter summarizing qualifications for this position, a curriculum vitae, and provide the names of 3 people who could serve as references to:

AAS Executive Search Committee Robert P. Kirshner Center for Astrophysics MS-19 60 Garden Street Cambridge, MA 02138

Applications received by August 15, 2005 will receive full consideration. Candidates will be selected for interviews, and the search will continue until the job is filled. Our expectation is that the successful candidate will be available for full time service by 1 June 2006. AAE/EOE.

New Jobs This Month

No. 21738
Postdoctoral and Senior Research Awards in the Space and Planetary Sciences
NATIOINAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES
Tel:
URL1: http://www.national-academies.org/rap
(information and online applications)

Attention: Jane Dell'Amore

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards

The National Research Council of the National Academies is accepting applications for awards for independent scientific research at the postdoctoral level and beyond for research to be conducted in residence at US Government laboratories. Awards will be offered in most areas of the space and planetary sciences, including astronomy, planetology, astrophysics, solar research, cosmology and related disciplines.

Among participating laboratories are:

Air Force Research Laboratory Naval Research Laboratory National Institute of Standards and Technology National Oceanic and Atmospheric Administratioin Natioinal Aeronautics and Space Administration

Awardees design their own research projects to be compatible with the interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients at above listed laboratories range from $50,000 to $60,000 and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance.

Annual application deadlines are February 1, May 1, August 1, and November 1. Detailed program information, including instructions on how to apply, can be found at: www.national-academies.org/rap. Only online applications will be accepted.

Questions should be directed to the NRC at tel: 202-334-2760 e-mail: rap@nas.edu

No. 21823
NSF Astronomy and Astrophysics Postdoctoral Fellowships (AAPF) at Tufts University-
DEPARTMENT OF PHYSICS AND ASTRONOMY, TUFTS UNIVERSITY
TUFTS UNIVERSITY
Robinson Hall
Tufts University
Medford, MA 02155
USA
Tel: (617) 627-3655
FAX: (617) 627-3878
URL1: http://www.aoc.nrao.edu/NSFfellows/
(NSF's AAPF program)
URL2: http://ase.tufts.edu/physics/faculty.htm
(Faculty in Tufts Physics/Astronomy Dept.)
URL3: http://ase.tufts.edu/education/programs/main.asp
(Programs in Tufts Education Dept.)
Email Inquiries: william.waller@tufts.edu

Attention: William Waller, Research Associate Professor

NSF Astronomy and Astrophysics Postdoctoral Fellowships (AAPF) at Tufts University

The Department of Physics and Astronomy at Tufts University invites candidates for the NSF Astronomy Astrophysics Postdoctoral Fellowships (AAPF) program to consider joining our small but dynamic group of faculty in Astronomy research and education. The NSF AAPF program is designed for postdoctoral candidates interested in carrying out an integrated program of research and education. The fellowship program supports researcher-educators for a period of up to 3 years. The next deadline for proposals is October 12, 2005. The NSF AAPF program does not have any special relationship with Tufts University. All proposals should be directed to the NSF.

Tufts University is a small "Research 1" university in the Boston area that is known for its international outlook and commitment to education. The Department of Physics and Astronomy has faculty engaged in solar, stellar, galactic, extragalactic, and cosmological research. Several of the faculty are leading efforts in astronomy education and public outreach, including collaborative programs with the Tufts Department of Education and with other institutions in the Boston area. Interested NSF AAPF candidates are encouraged to contact Dr. William H. Waller by e-mail at (william.waller@tufts.edu).

No. 21847
research associate
UNIV OF CALIFORNIA AT DAVIS
Tel:
Email Submission Address: bob@igpp.ucllnl.org
Email Inquiries: bob@igpp.ucllnl.org

Attention: robert becker

A postdoctoral position in galactic astronomy is available at UC-Davis for an individual interested in participating in a VLA 20cm Galactic plane survey. The applicant can participate in the creation of the survey and/or in follow-up observations covering all wavelength regimes, making use of both ground and space-based observatories. The goal of the Galactic survey is to produce high quality radio images with 5 arcsec resolution to a sensitivity of 1 mJy covering the inner quadrant of the Milky Way. The Galactic Survey began in 2001; at present twenty five degrees in longitude have been imaged in three configurations of the VLA (see http://third.ucllnl.org/gps). The successful candidate will become involved in all aspects of the survey. Responsibilities will include involvement in some of the science projects currently being pursued by the collaboration. In addition, the generation of new avenues of research will be strongly encouraged. The incumbent will have access to the facilities of Lick Observatory and, on a collaborative basis, Keck Observatory, for such projects. The position is an appointment at the University of California at Davis but will be located at the Institute for Geophysics and Planetary Physics (IGPP) at Lawrence Livermore National Laboratory. The appointment will be made for an initial period of two years with an extension to a third year possible. Don't miss this opportunity to move to California. Applications consisting of a curriculum vitae accompanied by a statement of research interests should be addressed to Prof. Robert Becker at bob@igpp.ucllnl.org . Applicants should arrange for three letters of recommendation to be sent as well. Applications will receive immediate consideration. The position will be filled as soon as a suitable candidate is identified. AAE/EOE

No. 21848
Jansky Fellowships 2006

NATIONAL RADIO ASTRONOMY OBSERVATORY
520 Edgemont Road
Charlottesville, Virginia 22903
USA
Tel:

Attention: Director's Office

The National Radio Astronomy Observatory (NRAO) announces the 2006 postdoctoral Jansky Fellowship program that provides outstanding opportunities for research in astronomy. The 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.

The starting salary will be $49,000 per year with an appointment duration of two years that may be renewed for a third year. There is a research budget of $7,000 per year for travel and computing requirements. In addition, page charge support, as well as vacation accrual, health insurance, and a moving allowance are provided.

Up to three appointments will be made annually for positions at any of the NRAO sites (Socorro, NM; Green Bank, WV; and Charlottesville, VA). The Jansky Fellows are encouraged to spend time at universities working with collaborators during the course of their fellowship. In addition, up to three Jansky Fellow appointments will be made annually for positions that may be located at a US university or research institute. Frequent and/or long term visits to the NRAO sites are encouraged.

The NRAO web site at http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml provides a description of the application process and other relevant details. The candidates must receive their PhD prior to beginning the appointment.

The deadline for applications and letters of recommendation is November 15, 2005. The NRAO is an equal opportunity employer (M/F/H/V).

No. 21849
Graduate Student - Massive Star Formation
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Dr.
Baltimore, MD 21218
USA
Tel:
URL1: http://www.stsci.edu

Attention: Christine Rueter, Sr. Employment Administrator

Applications are invited from advanced graduate students to pursue PhD thesis research under the supervision of Dr. Jesús Maíz Apellániz at the Space Telescope Science Institute

(STScI). The successful applicant will work on the update and analysis of the Galactic O star catalog (ApJS 151, 103) and of a survey of Galactic O2/O3/O3.5 stars obtained with the Advanced Camera for Surveys (ACS) of the Hubble Space Telescope (HST). The successful applicant will collaborate with other members of the team, who include Drs. Nolan Walborn, Edmund P. Nelan, Nidia Morrell, Virpi Niemela, and Enrique Prez. A strong interest in massive star formation is required. Technical expertise with HST data and experience with IDL, IRAF, astronomical databases, data reduction, and/or analysis of imaging data is desirable.

The successful applicant will spend 1-2 years at STScI, a similar amount of time at a research institution in Spain, and will be expected to remain enrolled in the graduate program at his/her home university, with the above periods subject to change due to availability of funding. A stipend of approximately $22,000 per year (depending on qualifications) is provided by STScI for the period of residence there. Some support for tuition is also available. Students from both U.S. and foreign universities are eligible to apply. Applicants must have a Bachelor's degree (or equivalent), must have completed all required graduate course work, and must have been admitted to the PhD program at their home universities.

Applications should include three copies each of the following material: a signed cover letter, a curriculum vitae, a statement of research interests, and a letter from the official advisor or departmental chairperson giving permission to work at STScI and certifying the good academic status. These should be sent by regular mail to Christine Rueter, Sr. Employment Administrator at:

Space Telescope Science Institute Human Resources – Req469 3700 San Martin Drive Baltimore, MD 21218 USA

Applications and letters of reference received before 1 September 2005 will receive full consideration. Later applications will be considered until the position is filled.

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

No. 21850
Radio Astronomer
NAVAL RESEARCH LABORATORY
4555 Overlook Ave., SW
Building 2/Room 277
Washington, DC 20375
USA
Tel: 202-767-0668
FAX: 202-404-8894
Email Submission Address: namir.kassim@nrl.navy.mil
Email Inquiries: namir.kassim@nrl.navy.mil

Attention: Dr. Namir Kassim, Research Physicist

The Naval Research Laboratory (NRL) is seeking postdoctoral applications from candidates with an interest in developing data reduction algorithms required by an emerging suite of

ambitious radio telescopes, including the Long Wavelength Array (LWA) and the Extended Very Large Array (EVLA). Successful candidates are normally resident at NRL in Washington, DC, but the option exists for residency in either Albuquerque or Socorro, NM, proximate to the National Radio Astronomy Observatory's (NRAO's) Array Operations Center in Socorro. In all cases, the successful candidate will be expected to work closely with scientists developing computational solutions to challenges facing the new radio instruments.

NRL is part of the Southwest Consortium (SWC), a University-based consortium led by the University of New Mexico (UNM). The four institutions currently participating as full members of the Southwest Consortium (SWC) are: UNM; the University of Texas at Austin through its Applied Research Laboratories (UT-ARL); the Los Alamos National Laboratory (LANL) of the Department of Energy; and NRL of the Department of Defense.

The SWC is developing the Long Wavelength Array (http://lwa.nrl.navy.mil) that will explore the relatively neglected frequency regime below 80 MHz, by capitalizing on breakthrough ionospheric calibration techniques that finally permit development of very low frequency arrays larger than ~5 km. The ~400 km LWA will realize improvements in both angular resolution and sensitivity by at least 2-3 orders of magnitude. The LWA frequency range favors studies of non-thermal and coherent (both known and unknown) emission sources, unique absorption processes, and provides an intrinsic link to shock physics, high-energy phenomena, and the high-red-shift Universe.

NRL astronomers carry out a wide range of observational programs at the VLA, VLBA, GMRT, GBT, and Arecibo Observatory, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today, and constitutes Phase 0 of the LWA. Observational programs, such as the ongoing Very Low Frequency Sky Survey (http://lwa.nrl.navy.mil/VLSS/) and ongoing 74 and 330 MHz Galactic center observing programs (http://rsd-www.nrl.navy.mil/7213/lazio/GC/) are pursued both for their science and also to address challenges for future low-frequency interferometers. Since the best way to solve technical problems is with real data, the successful candidate will be encouraged to pursue astronomical research using real low frequency data, while at the same time developing the innovative algorithms to maximize the scientific value of the data.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for one year, with a second year extension for satisfactory accomplishments in the first year. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Deadlines for submission to the NRC are 15 August 2005, 15 November 2005, and 15 February 2006. The current award stipend is $60,120.00 per year. US citizenship is required. Application materials can be obtained by writing to the Associateship Programs Office, TJ 2114, National Research Council, 2101 Constitution Ave. NW, Washington DC 20418 (email: rap@nas.edu or http://www.nas.edu/rap/). For further information contact Dr. Namir Kassim at the above address. EOE/AAE.

No. 21851
Scientific Programmer
AURA

P.O. Box 26732
Tucson, AZ 85726
USA
Tel: 520-318-8100
FAX: 520-318-8456
Email Submission Address: hrnoao@noao.edu
Email Inquiries: hrnoao@noao.edu

Attention: Human Resources Manager, NOAO, GONG Scientific Programmer, Job #745

Scientific Programmer Tucson, Arizona

The Global Oscillation Network Group (GONG) Program has an opening for a fulltime Scientific Programmer. The GONG program is managed by the National Solar Observatory and operates a set of six observing instruments located around the world to continuously observe the oscillations of the Sun and a data management center to reduce, process, and analyze the data. The applicant should have at least a BS in astronomy, optical science, physics, engineering, or mathematics, however an advanced degree is preferred, and a strong interest in working in astronomy is desirable. This position requires a minimum of two years of programming experience, preferably in a scientific computing environment. The reduction and processing system runs on Sun/Solaris and PC/Linux workstations, therefore experience with software development under UNIX, including shell scripting is required.

The candidate will participate in the on-going operation, and scientific and technical evaluation of the worldwide network of instruments, with particular emphasis on field instrument performance and data reduction and analysis of helioseismic and magnetic-field data. The candidate will: Develop and perform tests on image and ancillary data to evaluate the scientific and technical performance of the observing instruments; Diagnose and differentiate between instrument and data reduction problems; Develop and refine instrument calibration procedures and provide support to the data reduction team for the use of these algorithms; Interface with the instrument engineering and technical staff in support of network operations; Develop and maintain the near-real-time applications at the observing sites. Experience with programming in the Image Reduction and Analysis Facility (IRAF) environment, a large software system providing data reduction and analysis capabilities for astronomical data, the Interactive Data Language (IDL), and C/C++ would be a plus. The candidate must have demonstrated the ability to work with scientists, instrument support staff, and data reduction staff, and function as part of a team.

Applicants should submit their resume electronically (preferred) or in hardcopy form to the address below.

Human Resources Manager, NOAO Attn: GONG Scientific Programmer, Job #745 P.O. Box 26732 Tucson, AZ 85726—6732 Email: hrnoao@noao.edu FAX: 520-318-8456

NOAO and NSO are affirmative action/equal opportunity employers. Hiring preference is given to qualified Native Americans living on or near the Tohono O'Odham reservation. We value and foster a diverse work environment. Women and underrepresented minorities are strongly encouraged to apply.

No. 21852
Tenure-Track Faculty Position in Astrophysics
DEPARTMENT OF ASTROPHYSICS, IMAPP
Toernooiveld 1
The Netherlands
Tel: +31-24-3652265
FAX: +31-24-3652424
URL1: http://www.astro.ru.nl
(Dep. of Astrophysics Home Page)
Email Submission Address: pz@science.ru.nl
Email Inquiries: kuijpers@astro.ru.nl

Attention: Mrs. M.A. van Hout, Personnel Affairs

The Department of Astrophysics of the Radboud University Nijmegen invites applications for a tenure-track faculty position in the field of Astrophysics. Astrophysics is part of the Institute of Mathematics, Astrophysics and Particle Physics (IMAPP) of the Faculty of Science.

The Faculty offers a full curriculum in Physics and Astronomy. Current research interests are in theoretical and interpretational high-energy astrophysics with emphasis on astroparticle physics and on compact objects. Current facilities available through national partnership include the telescopes at La Palma (UK/NL) and ESO, the Westerbork Synthesis Radio Telescope, and LOFAR which is presently under construction and which will focus on astroparticle physics as one of its four key programmes. Nijmegen participates in the Netherlands' Research School for Astronomy (NOVA).

The appointment will be made at the assistant professor level. Candidates should have a proven record of outstanding research in astrophysics in one of the above fields, with a focus on the development and/or usage of planned international telescopes. A keen interest in teaching astronomy and physics is requested, in particular in the area of astronomical instrumentation.

Futher information concerning this position can be obtained from Prof. Dr. J. Kuijpers (kuijpers@astro.ru.nl ; tel. +31-24-3652080; fax +31-24-3652807) or Dr. P. Groot (pgroot@astro.ru.nl ; tel +31-24-3652801).

Interested applicants should submit Curriculum Vitae, publication list, a description of research interests, and have three letters of recommendation sent to the Radboud University, Faculty of Science, Personnel Affairs, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands, by September 17, 2005. Consideration of applications will begin September 17, 2005 and will continue until the position is filled. Applications should quote the reference number 62.48.05.

No. 21853
PostDoc in Astrophysics
MAX-PLANCK-INSTITUT FüR EXTRATERRESTRISCHE PHYSIK
Gießenbachstraße
Germany
Tel:
URL1: http://www.mpe.mpg.de

(MPI for Extraterrestrial Physics)
URL2: http://www.mpe.mpg.de/gamma/gamma.html
(High-Energie Astrophyics Group)
Email Submission Address: jcg@mpe.mpg.de
Email Inquiries: jcg@mpe.mpg.de

Attention: Jochen Greiner, Dr.

The Max-Planck-Institut für extraterrestrische Physik (MPE) in Garching advertises the position of a PostDoc in Astrophysics as part of MPE high-energy astrophysics group, focusing on gamma-ray astrophysics. It will involve science data analysis from the INTEGRAL and SWIFT space missions and the GROND instrument, as well as their astrophysical interpretations. The underlying science theme will be the astrophysics of gravitational collapse events, from supernova nucleosynthesis through GRBs and cosmological appli-cations. It is expected that the applicant has a strong record in high-energy astrophysics with special experi-ences in at least one of the above aspects of the science theme. We furthermore expect that the appli-cant is fluent in UNIX computer usage and programming in higher-level languages such as C. The international and collaborative projects will involve travel, and require adequate communication skills and teamwork. The position will start on Oct 1, 2005 with an initial contract duration of 1 year, and planned extension for a second year. The position follows the framework of public service employees in Germany. The Max-Planck-Institut für extraterrestrische Physik is an equal-opportunity employer, yet specifically aims at an increase of female employees. For details see www.mpe.mpg.de/gamma/gamma.html or contact Dr. Jochen Greiner, ph +49-89-30000-3847, email jcg@mpe.mpg.de, or the MPE recruiting departe-ment ph +49-89-30000-3310 email gschnell@vw.mpe.mpg.de. Please send your application (with CV, research plan, and identification of 3 potential referees) before September 10 to Personalabteilung, Max-Planck-Institut für extraterrestrische Physik, POB 1312, D-85740 Garching, Germany (email gschnell@vw.mpe.mpg.de).

No. 21854
FACULTY POSITION IN ASTRONOMICAL INSTRUMENTATION
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE
4860 VICUNA MACKENNA
MACUL
SANTIAGO, REGION METROPOLITANA 306-22
CHILE
Tel: 5623544196
FAX: 5625522563
URL1: http://www.ing.puc.cl/esp/infacademica/concursos/index.html
Email Submission Address: pgazmuri@ing.puc.cl
Email Inquiries: pgazmuri@ing.puc.cl

Attention: PEDRO GAZMURI, VICE DEAN

FACULTY POSITION IN ASTRONOMICAL INSTRUMENTATION ESCUELA DE INGENIERIA PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE

The Faculty of Engineering at the Pontificia Universidad Catolica de Chile offers a new position

in the Electrical Engineering Department at the Assistant Professor level, available as early as September 2005.

The new member of staff will join the research and teaching activities of both the Department of Electrical Engineering (DEE) at the School of Engineering, and the Department of Astronomy and Astrophysics (DAA) at the Faculty of Physics. She/he will also have to strongly interact with engineering and astronomy students.

Presently, the DEE includes 13 faculty who work in the areas of Control, Instrumentation, Robotics, Power Systems and Telecommunications, and the DAA includes ten faculty and several post-docs doing research in the areas of observational and theoretical cosmology, and extragalactic and stellar astrophysics. Both Departments would like to develop a new group in areas related to mm-radio astronomy. The selected candidate is expected to lead the instrumentation area of this group.

The successful applicant will interact closely with engineers and scientists in the international observatories in Chile, including ESO/VLT, Gemini, Magellan, and ALMA.

Teaching duties will be in astronomical engineering, at the undergraduate and graduate levels.

Job Requirements

Even though high priority will be given to engineers and scientists with mm-radio instrumentation backgrounds, applicants from all areas with experience in astronomical instrumentation are encouraged to apply.

Successful candidates must have a Ph.D. and a demonstrated ability and commitment to excellence in independent research and teaching.

No. 21855
Director, Gemini Observatory
GEMINI OBSERVATORY
1200 New York Avenue NW
Suite 350
Washington, DC 20005
USA
Tel: 202-483-2101
FAX: 202-483-2106
URL1: http://www.aura-astronomy.org
Email Submission Address: mme@aura-astronomy.org
Email Inquiries: mclaren@ifa.hawaii.edu

Attention: Robert McLaren, Chair, Gemini Director Search Committee

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The Association of Universities for Research in Astronomy (AURA) seeks a new Director for the Gemini Observatory, with the aim of filling this position in early 2006. The Gemini Observatory is an international partnership to operate twin 8.1-meter telescopes, one on Mauna Kea in Hawaii, and the other on Cerro Pachón in Chile. The partners include the United States, United Kingdom, Canada, Chile, Argentina, Australia, and Brazil. AURA manages the

Gemini Observatory under the auspices of the International Gemini Board and the U.S. National Science Foundation (NSF) as its executive agency. Gemini currently has a staff of approximately 160, including scientists, engineers, technicians and administrative personnel.

The Gemini Director is responsible to the Gemini Board, through the Executive Agency and AURA, for the overall operation of the Observatory. The Director interacts directly with representatives of the Executive Agency and the partner countries. The Director leads a scientific, technical, and administrative staff to carry out the mission of the Observatory and to conduct Gemini- related research.

Candidates for Director should have demonstrated strong scientific leadership and have an established record of research achievement, preferably in astronomy or a closely related field. Candidates should also have demonstrated talent for administration and management, combined with skill in institutional and international relations.

Applications will be accepted until the position is filled. All applications received by September 30, 2005 will be given full consideration. Applications must include: a curriculum vitae, information on relevant experience and accomplishments, the candidate's vision for the evolution of the Gemini Observatory, and the names of three professional references. Please send applications to:

Gemini Director Search Committee, c/o AURA, Suite 350, 1200 New York Avenue NW, Washington, DC 20005

The Search Committee will hold all applications in confidence.

Women and minorities are encouraged to apply. AURA is an EOE/AA/F/D/V employer

Questions related to this search should be directed to Dr. Robert McLaren, Chair of the Gemini Director Search Committee at mclaren@ifa.hawaii.edu

Information and updates regarding this search are available on www.aura-astronomy.org

No. 21856
Post Doctoral Research Associate - Radio Astronomy Arrays
UNIVERSITY OF MANCHESTER
Tel:
URL1: http://www.manchester.ac.uk/vacancies
Email Submission Address: Eps-hr@manchester.ac.uk

Attention: Human Resources

Jodrell Bank Observatory Post Doctoral Research Associate Imaging techniques for long baseline radio astronomy arrays Ref: EPS/074/05 Salary up to £30,000 per annum You will join the ALBUS project and work predominantly on data processing techniques and software applicable to wideband (0.5 – 4GHz) aperture synthesis observations. ALBUS (Advanced Long Baseline User Software) is one of three R&D projects funded by RadioNet. It aims to develop software for producing radio images from radio arrays and handle the increased data volumes that will result from current increases in observing bandwidths.

You will need to evaluate existing strategies and algorithms, optimisation of these techniques for wide contiguous bands and implementation of these techniques on existing parallel computing platforms, including a 184-node Beowulf cluster at JBO.

You will have PhD or equivalent in astronomy, astrophysics or a related subject, experience in the reduction of interferometric radio-astronomical data, an interest in the development and implementation of these data reduction techniques and the ability to work conscientiously and independently. A minimum of 2 years of relevant post-doctoral research experience, experience in design and/or development of astronomical data reduction software and experience with parallel and/or cluster computing would also be advantageous.

The post is available immediately and is for an initial period of two years.

Application forms and further details may be downloaded by visiting the website: www.Manchester.ac.uk/vacancies. Alternatively, please email your request to the Human Resources Office, Eps-hr@manchester.ac.uk or telephone +44 (0)161 2758837.

Please quote the reference number. Closing date: 31st August 2005

No. 21857
Professorship in Theoretical Astrophysics
UNIVERSITY OF TUEBINGEN
Morgenstelle 14
Germany
Tel:
URL1: http://www.tat.physik.uni-tuebingen.de/
(Institute's Webpage)
Email Inquiries: wilhelm.kley@uni-tuebingen.de

Attention: Dekan, Fakultaet fuer Mathematik und Physik

Applications are sought from internationally renowned candidates with research emphasis on RELATIVISTIC ASTROPHYSICS.

The successful applicant will participate in the collaborative research grant SFB/Transregio on: "Gravitational Wave Astronomy: Methods - Sources - Observations", which is funded by the German Science Foundation.

The research activities of the Institute are Astronomy, Instrumental Design/High Energy Physics, Computational Physics and Theoretical Astrophysics. The duties of the position include representation of the field in research and teaching and an active participation in the education of physics undergraduates and in the subject of Astronomy and Astrophysics.

The university of Tuebingen encourages female scientists to apply for the position. Interested candidates should send their application, including a CV, publication list, teaching career, and a brief research plan by August 31, 2005 to:

Dekanat fuer Mathematik und Physik, Universitaet Tuebingen, Morgenstelle 14, 72076 Tuebingen, Germany

No. 21858
Postdoctoral Researcher - Gamma-Ray Burst Astrophysics
PENN STATE UNIVERSITY
Dept. of Astronomy & Astrophysics
525 Davey Lab., Box JR
University Park, PA 16802
USA
Tel: 814 865 0418
FAX: 814 863 2842
URL1: http://www.astro.psu.edu

Attention: Dr. Peter Meszaros, c/o Cathy Lutz

We invite applications for a postdoctoral position in the area of theoretical models of gamma-ray burst sources relevant to Swift and GLAST to work with Dr. Peter Meszaros at Penn State. Previous experience in relativistic hydrodynamics and high energy processes is desirable. Penn State (http://www.astro.psu.edu) is part of the Swift consortium, the Chandra-ACIS experiment, the Hobby-Eberly telescope, the AUGER and IceCube projects, with various ongoing high energy projects. Applications with CV, publication list and three letters of reference should be sent to the attention of: Dr. Peter Meszaros, c/o Cathy Lutz, 525 Davey Laboratory, University Park, PA 16802 (Tel: 814-865-0418, FAX: 814-863-2842). Applications will start to be considered after Aug. 1, 2005. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No. 21859
Postdoctoral Position in Millimeter & Sub-millimeter Astronomy at Univ. de Concepcion, Chile
UNIV. DE CONCEPCION, CHILE
Tel:
URL1: http://www.astro-udec.cl
(Astronomy Homepage (U. de Concepcion))
Email Submission Address: nagar@astro-udec.cl
Email Inquiries: nagar@astro-udec.cl

Attention: Neil Nagar

The Astronomy Group at the Universidad de Concepcion has an opening for a Postdoctoral Research Associate to work with Neil Nagar in the area of millimeter and sub-millimeter astronomy. The position is initially for two years, with the possibility of a third year extension.

The primary aim of the postdoc will be to work on projects in preparation for the Chilean 10% share of ALMA time, and to join in the observation, processing, and analysis of data from existing mm/sub-mm telescopes. In addition, the postdoc will be encouraged to craft an independent research program. The successful candidate will have full access to the 10% of Chilean observing time at all telescopes operating in Chile, including ASTE, APEX, VLT, Gemini South, and Magellan. Previous experience in mm/sub-mm observations and in extragalactic mm-related science is a bonus, but not required.

The Universidad de Concepcion is the largest Chilean university outside of Santiago. The Astronomy Group at the Universidad de Concepcion currently numbers 5 professors and 6 postdoctoral researchers (detailed information at http://www.astro-udec.cl).

To apply for the position, please submit a vita, a list of publications, names and email addresses of three referees who know you and your work, and a brief description of the research you intend to carry out over the next three years, via email to the address given above. Applications received by September 15 will receive full consideration, and the search will continue until the position is filled. The preferred starting date is on or before January 1, 2006.

No. 21860
Postdoctoral Fellowship in Theoretical Astrophysics / Plasma Astrophysics
UNIVERSITY OF ROCHESTER
Department of Physics and Astronomy
University of Rochester
Rochester, NY 14627
USA
Tel: 1-585-275-0537
FAX: 1-585-273-2813
URL1: http://www.pas.rochester.edu
(UR Physics & Astronomy Home Page)
Email Submission Address: blackman@pas.rochester.edu

Attention: Eric Blackman, Professor

The theoretical astrophysics group at the University of Rochester invites applications for a postdoctoral position in theoretical astrophysics or plasma physics and the overlap between the two fields. Preference will be given to candidates with expertise in high energy astrophysics, relativistic plasma astrophysics, or computational plasma physics with PIC, Vlasov, or MHD codes. Example areas of research include particle acceleration in high energy sources, magnetic reconnection, jets, accretion disks and coronae, plasma and MHD turbulence, and the amplification and dynamics of magnetic fields. The excellence of the candidate is more important than the specific focus of previous research.

The position is for 2 years with the possibility of extension for a third year. The candidate can expect significant independence as well as the opportunity for close collaboration with an active group in a supportive and interactive working environment. In addition to the activity in the Department of Physics and Astronomy, the University is home to the Laboratory for Laser Energetics, a major plasma physics research center in the US.

Applicants should submit a CV, a description of research interests, and have three letters of recommendation sent. Consideration of applications will be ongoing until the position is filled. The University of Rochester is an equal opportunity employer.

No. 21861
Postdoctoral Research Associate
AURA/GONG
950 N. Cherry Ave.

P.O. Box 26732
Tucson, AZ 85726
USA
Tel:
FAX: 520-318-8456
Email Submission Address: hrnoao@noao.edu

Attention: Human Resources Manager

Postdoctoral Research Associate Tucson, Arizona

The National Solar Observatory (NSO) has an opening for a full-time Postdoctoral Research Associate to work with the helioseismic and magnetic-field data acquired by the upgraded cameras in the network of observing instruments that is operated by the Global Oscillation Network Group (GONG++) program. The data reduction and analysis system consists of helioseismic processing and reduction software on Sun and Linux workstations (Unix, IRAF, IDL). Requirements include a Ph.D. in Astronomy or closely related Physical Science; demonstrated record of scientific accomplishments; experience with scientific-based operating systems, programming languages, and data reduction and analysis packages.

Position open until filled.

To apply, send resume, names and address of three professional references electronically to hrnoao@noao.edu. Please reference GONG Postdoctoral Research Associate, Job #747 in the subject line or mail to:

Human Resources Manager National Optical Astronomy Observatory Attn: GONG Postdoctoral Research Associate, Job #747 P.O. Box 26732 Tucson, Arizona 85726-6732 FAX: 520-318-8456

NOAO is an affirmative action and equal employment opportunity employer.

Preference will be granted to qualified Native Americans living on or near the Tohono O'Odham reservation.

We value and foster a diverse research environment. Women and underrepresented minorities are particularly encouraged to apply.

No. 21862
Program Manager, Astronomical Facilities & Large Projects
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
Email Inquiries: efriel@nsf.gov

Attention: Eileen Friel, Executive Officer, AST

DIVISION OF ASTRONOMICAL SCIENCES National Science Foundation, Arlington, VA

NSF's Division of Astronomical Sciences is seeking qualified applicants for the position of Program Manager, Astronomical Facilities and Large Projects. The Program Manager will have primary responsibility for the oversight and management of one or more major astronomical observational facilities and/or large projects supported by the Division. Responsibilities involve planning and budgeting for the facility; reviewing and approving program plans, budgets, contracts, etc; monitoring the performance of the managing organization; and serving as the principal contact for administrative and programmatic matters concerning the facilities or projects. Activities also include planning, budget development, the preparation of written material about the research supported by the Division, and interactions with other NSF programs, Federal agencies and organizations. Final programmatic and management responsibility will depend on the expertise and qualifications of the candidate. 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. Incumbents are expected to work with the astronomical research and education community to broaden the diversity of participants in NSF programs. Program Directors are encouraged to participate in ongoing long-range and strategic planning and program development within the Astronomy Division. There are opportunities to participate in Foundation or Directorate-wide activities in areas of education, facilities management, strategic planning and program development.

The position will be filled on either a permanent basis or as a one or two year Visiting Scientist Appointment to commence in late 2005. The salary range, which includes locality pay adjustment, is from $88,369 to $137,713 per annum. 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.

Announcement E20050102, with position requirements and application procedures, is located on the NSF Home Page at www.nsf.gov/jobs. Applicants should submit a resume or application of your choice, up to three letters of recommendation, and a narrative statement that addresses your background and/or experience related to the position to the address above by October 1, 2005. Applicants should refer to vacancy announcement number E20050102. Telephone inquiries may be referred to Lisa Codario at 703-292-4351. For technical information, contact Dr. Eileen D. Friel, AST Executive Officer, 703-292-4895. (Hearing impaired individuals may call TDD 703-292-8044).

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. 21864
Scientist or Research Scientist
JET PROPULSION LABORATORY
Tel:

Email Submission Address: Glenn.E.Kubat@jpl.nasa.gov

Attention: Glenn E. Kubat

The Astrophysics and Space Sciences Section at the Jet Propulsion Laboratory (JPL) located in Pasadena, CA, a division of the California Institute of Technology (Caltech), invites applications for a scientist position in the research area of astronomical high contrast imaging systems and observational studies of extrasolar planetary systems. JPL is NASA's lead center for missions to study extrasolar planetary systems, including the Terrestrial Planet Finder (TPF) Mission. JPL is developing mission concepts such as the Discovery-class Eclipse mission to directly image extrasolar Jovian planets with a 2m space telescope. Laboratory support includes JPL's High Contrast Imaging Testbed (HCIT) configured to develop and demonstration billion-to-one optical contrast at subarcsecond separations. Depending on experience, the appointment will be made at the Scientist or Research Scientist level.

Applicants should include a letter stating research interests, current curriculum vitae including a list of publications, and the names and contact information for at least three potential references. Please include Requisition # 3577 in your correspondence and send your information to Glenn E. Kubat, Employment Manager: Glenn.E.Kubat@jpl.nasa.gov.

To ensure the success of our nation's space program, it is imperative that we employ a work force that mirrors the diversity in the world around us, thereby ensuring access to innovative ideas and creative solutions. JPL is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

No. 21866
Hubble Fellow
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive
Baltimore, MD 21218
USA
Tel:
URL1: http://www.stsci.edu
Email Inquiries: fall@stsci.edu

Attention: Michael Fall

The Space Telescope Science Institute announces the continuation of the Hubble Fellowship Program and solicits applications for fellowships to begin in the fall of 2006. This program supports outstanding postdoctoral scientists whose research is broadly related to the scientific mission of the Hubble 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, 2003, 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 STScI website, http://www.stsci.edu/institute . Applicants must follow the instructions given in this Announcement. Inquiries about the Hubble Fellowships may be directed to Dr. Michael Fall (410-338- 4833, fall@stsci.edu).

The deadline for both applications and letters of reference is Friday, October 14, 2005. Offers will be made before February 1, 2006, and new appointments are expected to begin on or about September 1, 2006. Women and members of minorities are strongly encouraged to apply. EOE/AA/M/F/D/V.

No. 21870
Bolton/CSIRO Postdoctoral Fellowships - Australia Telescope National Facility
CSIRO, AUSTRALIA TELESCOPE NATIONAL FACILITY
Cnr Vimiera & Pembroke Roads
Marsfield
Sydney, NSW 2122
Australia
Tel:
URL1: http://www.atnf.csiro.au/research/postdocs/
(Australia Telescope National Facility)
URL2: http://recruitment.csiro.au
(Submission Address)
Email Inquiries: Baerbel.Koribalski@csiro.au

Attention: Dr Baerbel Koribalski, Senior Research Scientist

Applications are invited for Bolton/CSIRO Fellowships in astrophysics and/or Square Kilometre Array (SKA) - related strategic research. These are three-year post-doctoral appointments at the ATNF, Australia's premier radio astronomical facility.

Bolton/CSIRO 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 a new 6 GHz multibeam receiver. The Compact Array has a 6km east-west baseline with a 214m north-south spur and operates in six bands between 20cm and 3mm. The ATNF is also working on strategic SKA research and is currently developing a New Technology Demonstrator (NTD) and a science array (xNTD) based on wide field focal plane arrays.

Applicants must have obtained, within the last three years, (or will shortly satisfy the requirements for) a PhD degree in astronomy, astrophysics or related disciplines. The commencement annual salary is in the range of $A58K to $A64K plus benefits. A discretionary research allowance of about $A24K over the three-year term and a relocation allowance are also payable.

Applications should include a completed application form and a curriculum vitae which include a list of publications. Closing date for applications is September 1, 2005.

For information about ATNF, visit www.atnf.csiro.au For further information on the Fellowship

contact Dr B Koribalski, email: Baerbel.Koribalski@csiro.au Detailed information about the Fellowship and how to apply is also available at www.csiro.au/careers. Reference Number: 2005/724

No. 21871
Postdoctoral or Ph.D. position in Infrared Astronomy/Interferometry
MAX-PLANCK INSTITUTE FOR RADIO ASTRONOMY
Auf dem Huegel 69
Bonn, D- 53121
Germany
Tel: +49-228-525-243
FAX: +49-228-525-437
URL1: http://www.mpifr-bonn.mpg.de/div/ir-interferometry
Email Submission Address: weigelt@mpifr-bonn.mpg.de
Email Inquiries: weigelt@mpifr-bonn.mpg.de

Attention: Gerd Weigelt, Prof.

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

The successful applicants will be expected to participate in the development of interferometric methods, interferometric observations, and their interpretation. The positions offer excellent opportunities for high-resolution studies using the VLT Interferometer (in particular, its AMBER phase closure instrument) and speckle interferometry. As our group is a member of the international VLTI AMBER and the LBT LINC-NIRVANA consortia, we own a large amount of both VLTI and LBT Guaranteed Observing Time.

The appointments are initially for one year and are renewable for up to six years. Applicants should submit a curriculum vitae, list of publications, and brief description of research interests, and arrange for one letter of recommendation to be emailed to weigelt@mpifr-bonn.mpg.de . Review of applications will begin on 1 Sep 2005 and continue until the position is filled. The Max Planck Society is an equal opportunity employer and aims to employ more disabled people. Applications from disabled persons are therefore particularly welcome.

No. 21872
UK Gemini Support Scientist
UNIVERSITY OF OXFORD
Tel:
URL1: http://www-astro.pysics.ox.ac.uk
(Oxford Astrophysics)
URL2: http://gemini.physics.ox.ac.uk
(Gemini Group)
Email Submission Address: sec@astro.ox.ac.uk
Email Inquiries: sec@astro.ox.ac.uk

Attention: Mrs Lindsay Walker

UK GEMINI SUPPORT SCIENTIST

We expect to fill a 4-year fixed-term UK Gemini Support Scientist position, to support UK use and scientific exploitation of the Gemini 8-m Telescopes. The post is available from January 2006. The successful applicant will be based in the Astrophysics group of the Physics Department at Oxford University, where they will work as part of the UK National Gemini Office.

This post is specifically aimed at supporting the near and mid-infrared instruments and observations. A good knowledge of observing techniques, astronomical instrumentation and data reduction procedures and packages is required, in order that expertise in Gemini instruments and operations can rapidly be gained. Gemini instrumentation consists of optical, near-infrared and mid-infrared imagers and spectrographs and adaptive optics instruments. Experience with these types of instrument would be valuable. Previous experience with near and/or mid-infrared observing and data reduction is particularly relevant.

Duties will include supporting the community through the telescope time allocation process, observation preparation and post observational support. Support scientists also make 1-2 trips per year to the telescope sites in Chile or Hawaii to support observations. The successful applicant will have 30% of their time for research and will be expected to conduct research programmes that include exploitation of Gemini. Candidates should have a Ph.D. or equivalent qualification in astronomy or other relevant discipline.

The starting salary is from 20540 to 29128 pounds pa depending on skills and experience. Applicants should send a statement containing research interests, relevant support experience and motivation for choosing a support job, a curriculum vitae, a list of publications, and the names and addresses of three referees by the closing date of 3 October 2005. In addition candidates should arrange for letters from the referees to be sent to the address below by the closing date. Further particulars of the post and more information on the group's research programme may be obtained from http://www-astro.physics.ox.ac.uk and http://gemini.physics.ox.ac.uk. Initial enquiries about this post can be made to Dr. Rachel Johnson, raj@astro.ox.ac.uk.

While preference will be given to applications that arrive by the closing date, we will also consider late applications which arrive prior to the final short-listing of candidates. Applications and all other correspondence should quote reference DB05006 and be directed to:

Mrs L. Walker Astrophysics Denys Wilkinson Building Keble Road Oxford OX1 3RH UK email: sec@astro.ox.ac.uk Fax: +44 (0)1865 273390

No. 21873
Firestone Postdoctoral Fellowship 2005
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street, Mail Stop 47
Cambridge, MA 02138
United States
Tel: 617-495-7103
FAX: 617-495-7105
URL1: http://www.cfa.harvard.edu/firestone

Email Inquiries: postdoc@cfa.harvard.edu

Attention: Fellowship Program Coordinator

Smithsonian Astrophysical Observatory

THE FIRESTONE POSTDOCTORAL FELLOWSHIP 2005 AT THE MMT OBSERVATORY

This Smithsonian Astrophysical Observatory (SAO) postdoctoral research fellowship, funded by the Roger S. Firestone Foundation, will be available at the MMT Observatory (MMTO) near Tucson, Arizona, U.S.A., beginning in the fall of 2005. The MMTO is a joint facility of the SAO and The University of Arizona (UA). SAO is a member of the Harvard-Smithsonian Center for Astrophysics (CfA), whose main offices are in Cambridge, Massachusetts.

We are searching for a young investigator with a background in instrumentation and/or astronomical observations and data collection. This Fellow will help us realize the full scientific potential of the 6.5 meter MMT's wide-field instruments (particularly the recently-commissioned Hectospec and the Hectochelle) and carry out a research program of the fellow's choice with the MMT.

The Firestone Fellow will carry out specific activities, such as: Training observers in the use of the wide-field instruments; Coordinate routine maintenance of the instruments; Assisting and advising the Observatory's software engineers in developing customized tools to ensure that all the wide-field instruments are as efficiently used and "userfriendly" as possible for astronomers; Completing documentation manuals for and training observers in "quick look" evaluation of their data; Assisting with the development and implementation of the instruments anticipated for installation at the telescope during the next two years.

The Fellow will have competitive access to the 6.5-m at MMTO and other SAO telescopes and can expect to establish a collaborative stake in at least one large project to be carried out with the wide-field instruments at the MMT. The position offers the combination of access to a large telescope, modern instrumentation, and collaboration with some of the best researchers in their fields.

Ph.D. recipients in any of these fields, with interest in observations, instrumentation, and/or data acquisition, are invited to apply. We are particularly seeking applicants having experience with modern astronomical instrumentation and advanced observing strategies including, but not limited to, infrared imaging and high resolution spectroscopy.

The appointment is for two years, contingent upon availability of funds. Stipend for the 2005-2006 year will be approximately $50,000. An annual research budget of approximately $13,000 will be available for the appointee. The duty station for the Firestone Postdoctoral Fellowship will be at the MMT Observatory. Occasional travel to Cambridge is desirable.

Applications forms and instructions are available at: http://www.cfa.harvard.edu/firestone
Applications are due by August 31, 2005

The Smithsonian Astrophysical Observatory is an Equal Opportunity/Affirmative Action Employer where all qualified applicants will receive consideration for employment without

regard to race, creed, color, sex or national origin.

No. 21874
IT Specialist (Applications Software)
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street
MS-17
Cambridge, MA 02138
US
Tel:
URL1: http://cfa-www.harvard.edu/cfa/hr/posting/25-66.htm
Email Submission Address: saoresumes@cfa.harvard.edu
Email Inquiries: saoresumes@cfa.harvard.edu

Attention: Recruiter #229 (#25-66)

IT Specialist (Applications Software) High Energy Astrophysics Division Trust Fund (Non-Federal) Indefinite $49,729 to $83,516/yr Salary commensurate with qualifications and experience.

We have an opportunity for a Software Programmer in the Chandra X-ray Center (CXC) Data Systems Team in Cambridge, Massachusetts. The employee functions as a software developer, programmer, and programmer analyst for the software systems developed to support Chandra data processing and analysis.

Duties include, but are not limited to: • developing and maintaining portable code; • analyzing and modifying programming systems, including encoding, testing, debugging and documenting; • designing, modifying, and implementing software programming applications which include relational databases, and may include a GUI; • supporting and/or installing software applications;

To qualify, candidates should possess: • two years of graduate-level education or Master's degree with a major in astronomy, physics, computer science or a related field, which included computer-related course work, or equivalent experience; • experience with UNIX & UNIX variants, C, C++, Perl, and familiarity with TCL/TK, Java, XML, Clearcase, other scripting languages and configuration management systems; • good communication skills; • ability to work effectively as a member of a team in a scientific environment.

To view the complete vacancy announcement for this position, see: http://cfa-www.harvard.edu/cfa/hr/postings/25-66.htm

We offer a competitive salary, comprehensive benefits package, and a stimulating environment. Interested candidates should submit resumes to: Recruiter #229 (#25-66), Smithsonian Astrophysical Observatory, 60 Garden Street, MS-17, Cambridge, MA, 02138, or to saoresumes@cfa.harvard.edu Please note that the e-mail address is for the submission of application materials only.

No. 21875
Research Astronomers

U.S. NAVAL OBSERVATORY FLAGSTAFF STATION
10391 W. Naval Observatory Road
Flagstaff, AZ 86001-8521
USA
Tel: 928-779-5132
FAX: 928-774-3626
Email Submission Address: jrp@nofs.navy.mil

Attention: Dr. Jeff Pier, Director

The US Naval Observatory Flagstaff Station anticipates an immediate opening for two astronomers. The primary responsibility for one of these positions is to continue and complete the commissioning of the Station's newest optical telescope: a 1.3-m wide-field RC instrumented with a six-CCD array of 2Kx4K e2v detectors covering 1.3 square degrees. The telescope and camera will be used primarily for wide-field astrometry, photometry, and transmission grating spectroscopy. The person hired will coordinate with the Station□s engineering group and staff astronomers to bring the telescope up to full, routine, automated operation. Experience with telescopes and instrumentation is essential. Experience with automated pipeline data processing and archiving would be viewed very favorably. Knowledge of hardware-software interfaces would be helpful as would software programming capabilities (especially in C; knowledge of Forth and Fortran would also be beneficial). The scientist can expect to have 25% of his/her time available for supported personal research, and will have significant say in the scientific programs to be undertaken with the 1.3-m telescope.

The second position is for an infrared astronomer to assist with USNO's infrared astrometric and photometric programs, led by Dr. Fred Vrba. USNO currently uses an imaging camera with a 1024x1024 "ALADDIN" InSb array operating between 0.9 and 3.4 microns at the 61-inch telescope in automated observing mode. The primary use for this instrument is in USNO's infrared astrometric program of measuring proper motions, parallaxes, and perturbations for very low-mass stars and brown dwarfs, although the instrument is also used for research ranging from solar system to cosmological distance scales. Of recent note is the publication, last year, of the first extensive list of parallaxes for L and T dwarfs determined in the infrared. The observatory is also involved in the development of two-side buttable 2048x2048 InSb "Orion" arrays for use in future instrumentation. The successful applicant will be expected to assist at all levels of the current infrared astrometry program, including data reduction and analysis, maintaining and diagnosing IR software and hardware, and being involved in the design of new IR detectors and cameras. He/she can also expect to have 25% of his/her time available to carry on a strong program of internally supported personal research in infrared or related fields and will have significant input into the future scientific direction of future USNO research programs.

These positions are full civil service appointments and are expected to lead to permanent staff appointments at the Flagstaff Station. The positions are at the GS-12 or GS-13 level, depending upon the experience, qualifications, and salary history of the successful applicant (s). The salary range for GS-12 is $60,576 to $78,745 and for GS-13 $72,035 to $93,643. U.S. citizens will be given hiring preference. Applications received by October 31, 2005 will be given full consideration.

Applicants should send a discussion of their interests (including which of the two positions is

being applied for) and qualifications, a list of recent publications, a list of three professional references (who will only be contacted after a short-list is established), and a brief curriculum vita to Dr. Jeff Pier, Director, US Naval Observatory Flagstaff Station, 10391 W Naval Observatory Rd, Flagstaff AZ 86001-8521, USA; or via email to jrp@nofs.navy.mil.

No. 21876
Research positions with LOFAR on transient source detection
ASTRONOMICAL INSTITUTE `ANTON PANNEKOEK', UNIVERSITY OF AMSTERDAM
Kruislaan 403
The Netherlands
Tel: +31-20-5257491
FAX: +31-20-5257484
URL1: http://www.astro.uva.nl
URL2: http://www.lofar.org
Email Submission Address: rwijers@science.uva.nl
Email Inquiries: rwijers@science.uva.nl

Attention: Ralph Wijers, Prof.

The Astronomical Institute of the University of Amsterdam has one 2.5-year postdoctoral position available in the area of radio transient searches with LOFAR, starting in the autumn of 2005. Depending on funding, there may also be a PhD student position and an additional programmer/software manager position available effective January 2006.

The LOFAR project will improve the sensitivity and resolution of radio observations at frequencies of 30-240 MHz by orders of magnitude, and perform large surveys as part of its key project program. It will begin observations in 2007 and be fully operational in 2009 (see www.lofar.org).

The University of Amsterdam is the lead institute for the LOFAR transient search key project, and is tasked with producing and managing a large data archive of transient events as well as a real-time trigger mechanism for follow up of radio transients. All positions are for people willing to participate in both the development of the required analysis techniques and in harvesting the scientific results of the early stages of the LOFAR transient key project. The work will be coordinated with the other institutes of the international LOFAR community. For the postdoctoral and software position(s), a PhD in astronomy or a related field is required. The successful PhD candidate must have a Master's degree in the same area(s). Salaries will be on the standard Dutch university scales, commensurate with age and experience. Application materials should include a CV, publication list, summary of recent research experience, and three letters of reference. Review of applications will begin on September 1 and continue until the positions are filled.

The Astronomical Institute Anton Pannekoek is a lively research institute with about 10 faculty, 10 postdocs, and 20-25 PhD students, located within 20 minutes of downtown Amsterdam on a science campus that is the ICT center of The Netherlands.

No. 21877
PhD position in theory of gamma-ray bursts
ASTRONOMICAL INSTITUTE `ANTON PANNEKOEK', UNIVERSITY OF AMSTERDAM

Kruislaan 403
The Netherlands
Tel: +31-20-5257491
FAX: +31-20-5257484
URL1: http://www.astro.uva.nl
URL2: http://www.astro.uu.nl
URL3: http://www.strw.leidenuniv.nl/AstroHydro3D/
Email Submission Address: rwijers@science.uva.nl
Email Inquiries: rwijers@science.uva.nl

Attention: Ralph Wijers, prof.

A PhD position is available immediately for theoretical research into the nature of afterglows from gamma-ray bursts and the extent to which they constrain the progenitors and nature of gamma-ray bursts. The project is a collaboration between the astronomical institutes of Utrecht (profs. Langer and Achterberg) and Amsterdam (prof. Wijers). The PhD student will be based in Amsterdam, but regularly spend time in Utrecht as well.

The collaboration has extensive experience in theory of massive stars and gamma-ray bursts, and in numerical hydrodynamics, and the successful candidate will perform numerical studies of relativistic blast waves propagating in realistics stellar-wind environments. The successful candidate must have a Master's degree in astronomy or theoretical physics. Salary will be on the standard Dutch university scale. Application materials should include a CV, publication list, summary of recent research experience, and three letters of reference. Review of applications will begin on September 1 and continue until the positions are filled.

The Astronomical Institute Anton Pannekoek is a lively research institute with about 10 faculty, 10 postdocs, and 20-25 PhD students, located within 20 minutes of downtown Amsterdam on a science campus that is the ICT center of The Netherlands.

No. 21878
Adaptive Optics Scientist Post-Doc
CALIFORNIA ASSO. FOR RESEARCH IN ASTRONOMY(W.M. KECK OBSERVATORY)
65-1120 Mamalahoa Hwy.
Kamuela, HI 96743
USA
Tel:
FAX: 808-885-4464
URL1: http://www.keckobservatory.org
Email Submission Address: employment@keck.hawaii.edu
Email Inquiries: employment@keck.hawaii.edu

Attention: Adaptive Optics Scientist

The W. M. Keck Observatory, which operates the world's two largest optical/infrared telescopes, seeks an Adaptive Optics Scientist to work at its headquarters in Waimea on the Big Island of Hawaii and on the summit of Mauna Kea.

The successful candidate will assist in the design, development and implementation of the Keck I LGS AO system; assist in the continued development of the Keck II LGS AO system; and participate in other improvements to the Adaptive Optics (AO) facilities and the design and development of next generation systems.

The requirements for this position include: A PhD level degree in astronomy or physics or equivalent experience. Prior adaptive optics system development experience is highly desirable.

Employment is conditional on successful completion of a pre-employment screening and drug tests. Fax (808) 885-4464 or mail resumes, references, and salary history to: Adaptive Optics Scientist, CARA, 65-1120 Mamalahoa Hwy., Kamuela, HI 96743 or employment@keck.hawaii.edu. Closing Date: Sept.30, 2005 EEO/M/F/D/V

No. 21895
Postdoctoral Fellow (Spitzer-COSMOS)
UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY
2680 Woodlawn Drive
Honolulu, Hawaii 96822
USA
Tel: (808) 956-8566
FAX: (808) 946-3467
URL1: http://www.ifa.hawaii.edu/position-vacancies/
URL2:
URL3:

Attention: Dr. Rolf-Peter Kudritzki, Director

Applications are invited for one (or possibly) two postdoctoral positions associated with the Spitzer Survey of the HST-COSMOS 2-square degree field. The project has been allocated 220 hrs for a deep IRAC survey and shallow MIPS survey of the full COSMOS field. It is expected that one position will be located at the Institute for Astronomy, University of Hawaii, and one at Caltech in Pasadena, CA, should the second position be filled. S-COSMOS postdocs will also be expected to work directly with team members located at the Spitzer Science Center. Successful candidates will be members of the COSMOS team and will have the chance to participate in the wide range of ongoing multi-wavelength data analysis currently in progress. A more complete description of the COSMOS project can be found at the team website http://www.astro.caltech.edu/~cosmos/

Applicants with previous experience in extragalactic infrared astronomy and with the analysis of spacecraft infrared data are encouraged to apply. The expected starting date is on or after November 1st 2005. Applicants must hold a Ph.D. in Astronomy or Physics prior to undertaking position. The appointments are for one year, renewable for up to two more years based on satisfactory performance and availability of funds. Applicants should send a curriculum vitae, bibliography and statement of research interests, and arrange to have three letters of recommendation sent to, Dr. Rolf-Peter Kudritzki, Director, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822. Review of applications will begin on September 15, 2005 and will continue until the position(s) is filled. All applicants will be considered for the S-COSMOS positions at both institutions. The University of Hawaii is an AA/EEO employer.

No. 21896
Scientific Programmer ID#25405
JOINT ASTRONOMY CENTRE
2350 Dole Street
Sakamaki Hall D-100
Honolulu, Hawaii 96822
USA
Tel: 808/956-3100
FAX: 808/956-5022
URL1: http://www.rcuh.com/
URL2: http://www.jach.hawaii.edu/admin/employment/
Email Inquiries: c.walther@jach.hawaii.edu

Attention: Director of Human Resources

The JAC supports two of the world's most powerful telescopes on the summit of Mauna Kea, Hawaii: the James Clerk Maxwell Telescope (JCMT) and the United Kingdom Infrared Telescope (UKIRT).

The successful applicant will enjoy the advantages of living on the Island of Hawaii and will join a dynamic team assisting astronomers to plan their observations at the telescopes and analyze their data. Members of the Scientific Computing Group utilize a wide variety of astronomical data analysis modules and combine them into complex systems using many different high level languages. The atmosphere at the JAC is one of competent people working together to accomplish challenging goals, while still being relaxed enough for the work to be rewarding, with enough spare time to relax and enjoy the islands of Hawaii.

Requirements: Bachelor's Degree from an accredited college or university in Computer Science, Astronomy or related field, (an equivalent level of experience and/or other postgraduate training is acceptable). Minimum of two (2) years post graduate experience in Java programming for a scientific or industrial institution.

Desirable: Masters Degree in Computer Science or Astronomy. Formal education in software development and detailed knowledge of modern astronomical observing methods and data reduction techniques. Familiarity with AIPS++, Starlink, or other astronomical data reduction packages. Experience with XML schema verification techniques and programming in high-level languages such as C++, C or Perl. Experience with databases and SQL.

Includes a relocation package and comprehensive benefits.

Inquires: Craig Walther (808) 969-6556

Detailed information available at http://www.jach.hawaii.edu/admin/employment/

Application Requirements: Go to www.rcuh.com, click "Employment", navigate to "Job Announcements" or submit resume; cover letter including ID#, referral source, narrative of qualifications for position, salary history; names, phone numbers and postal/email addresses of three supervisory references; copy of degree(s) / transcripts / certificate(s) to confirm credentials by fax (808) 956-5022 or mail to Director of Human Resources, Research

Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 by closing date. EEO/AA Employer.

Closing Date: 8/31/2005

No. 21897
Postdoctoral Fellowship in Planetary Science
AUSTRALIAN NATIONAL UNIVERSITY
Chancelry 10A
Canberra, ACT 0200
Australia
Tel:
URL1: http://info.anu.edu.au/hr/Jobs/Academic_Positions/index.asp
(further particulars, selection criteria)
URL2: http://wwwrsphysse.anu.edu.au/ampl
(further information)
Email Submission Address: jobs@anu.edu.au

Attention: Recruitment Officer

Atomic and Molecular Physics Laboratory, Research School of Physical Sciences and Engineering

Applications are invited for a postdoctoral fellowship in atmospheric photochemistry and radiative transfer modeling. The appointee's primary responsibility will be to participate in an investigation of the chemistry of the Venus middle atmosphere. This research will include examining the recent evolution of chemistry in the Venus middle atmosphere and/or interpreting data from ESA's Venus Express spacecraft. The incumbent will be able to participate in the Oxford-based Venus Express multi-disciplinary science team and the ANU's rapidly expanding Planetary Science Institute.

Applicants should have an earned PhD or equivalent in a relevant physical science discipline. Skills and experience in complex numerical simulations, atmospheric science, and/or chemical physics are highly desired. Good communication skills and the ability to work independently are required.

Appointment: Two-year fixed term. Salary Package: AUD 49,690 - AUD 59,963 pa plus 17% employer-provided superannuation contribution and a relocation allowance. Applicants holding a PhD will commence on a salary level no less than AUD 56,035 pa. Funding for this position has been received from the Australian Research Council. The appointment can commence immediately. Prior to submission, selection documentation must be sought from http://info.anu.edu.au/hr/Jobs/Academic_Positions/index.asp . Enquiries about the position: Dr. Frank Mills (Frank.Mills@anu.edu.au).

No. 21898
Postdoctoral Position in High Energy Extragalactic Astrophysics
UNIVERSITY OF SOUTHAMPTON
School of Physics and Astronomy
University Road

Southampton, Hampshire SO22 4JA
UK
Tel: 44-23-8059-2101
FAX: 44-23-8059-3910
URL1: http://www.astro.soton.ac.uk
(Astronomy Group, Southampton University)
URL2: http://www.phys.soton.ac.uk
(School of Physics and Astronomy)
Email Submission Address: imh@astro.soton.ac.uk
Email Inquiries: imh@astro.soton.ac.uk

Attention: Professor Ian McHardy, Head of Astronomy

A postdoctoral position in high energy extragalactic astrophysics is available in the expanding Southampton Astrophysics Group. The position is for two years initially, but may be renewed. The post is available from 1 October 2005 although a delayed start may be possible.

The Southampton Astronomy Group is a world leading group in high energy astrophysics. We are currently seeking someone, either observational or theoretical, with interests in extragalactic high energy astrophysics, e.g. Active Galaxies or X-ray/radio/multiwaveband deep surveys. Further details of current research programmes are available on http://www.astro.soton.ac.uk. The successful applicant would be expected to participate in these programmes but would also be encouraged to develop complementary programmes. The post is funded as part of the Southampton PPARC Astronomy Rolling Grant. Good computing facilities are available and funds are available for attendance at conferences.

The Southampton School of Physics and Astronomy achieved the highest 5* rating in the last national Research Assessment Exercise, making it one of the top 5 Physics Departments in the UK for research.

Informal enquiries should be addressed to Professor Ian McHardy, (email imh@astro.soton.ac.uk, Tel 44-23-80592101).

Application forms may be obtained from and returned to: Human Resources, University of Southampton, Southampton, Hampshire, SO17 1BJ, UK. Tel +44 (0)23 80592750, email recruit@soton.ac.uk, or www.jobs.soton.ac.uk

Please also attach a curriculum vitae, a list of publications, a statement of research interests and arrange for two letters of recommendation to be sent.

Please quote reference 04F0897.

No. 21899
Professor in Astronomy
QUEEN MARY, UNIVERSITY OF LONDON
Astronomy Unit, School of Mathematical Sciences
Mile End Road
London, London E1 4NS
United Kingdom

Tel: +44 20 7882 5455
FAX: +44 20 8981 9587
URL1: http://www.maths.qmul.ac.uk/Astronomy
(Astronomy Unit)
URL2: http://www.maths.qmul.ac.uk/Astronomy/jobs/
(Information and application form)
Email Submission Address: m.carter@qmul.ac.uk
Email Inquiries: j.p.emerson@qmul.ac.uk

Attention: Mariana Carter

Applications are invited for a permanent Professor in the Astronomy Unit of the School of Mathematical Sciences at Queen Mary, University of London, with an associated lectureship available in due course.

Applicants should have an outstanding record of research achievement and leadership preferably in either Cosmology or Planet Formation, although strong candidates in other areas may be considered if they focus, complement, and enhance the existing programmes of the Unit. Appointees will also be expected to teach in the School of Mathematical Sciences, which has buoyant student numbers.

The Professorial salary (minimum £45,647 per annum inclusive of London allowance) depends on qualifications and experience. The post is available from 1 January 2006 or as soon as possible thereafter.

For any further details on the Astronomy Unit which has a current faculty of 14 and computing facilities including a 156 CPU high performance cluster visit: www.maths.qmul.ac.uk/Astronomy, and for an application form: www.maths.qmul.ac.uk/Astronomy/jobs/

Informal enquiries: Professor Emerson, Astronomy Unit Director. Tel: +44 (0) 20 7882 5040; Fax +44 (0) 20 8981 9587; Email: j.p.emerson@qmul.ac.uk, or Professor Arrowsmith, Head of School (+44 (0) 20 7882 5464) Email: d.k.arrowsmith@qmul.ac.uk

Completed application forms and CVs should be returned quoting reference 05260/FD to Mariana Carter, School of Mathematical Sciences, Queen Mary, University of London, Mile End Road, London E1 4NS (Email m.carter@qmul.ac.uk). Applications will be considered until the post is filled, with the first review covering applications received by 01 October 2005.

No. 21900
Postdoctoral Research Position with S-COSMOS
CALIFORNIA INSTITUTE OF TECHNOLOGY
ASTRONOMY DEPT
MC 105-24
PASADENA, CA 91125
USA
Tel: 626-395-4979
FAX: 626-568-9352
URL1: http://www.astro.caltech.edu/~cosmos/

Email Submission Address: nzs@astro.caltech.edu
Email Inquiries: nzs@astro.caltech.edu

Attention: NICK SCOVILLE, PROF. OF ASTRONOMY

Applications are invited for one (or possibly) two postdoctoral positions associated with the Spitzer Survey of the HST-COSMOS 2-square degree field. The project has been allocated 220 hrs for a deep IRAC survey and shallow MIPS survey of the full COSMOS field. It is expected that one position will be located at the Institute for Astronomy, University of Hawaii, and one at Caltech in Pasadena, CA. S-COSMOS postdocs will also be expected to work directly with team members located at the Spitzer Science Center. Successful candidates will be members of the COSMOS team and will have the chance to participate in the wide range of ongoing multi-wavelength data analysis currently in progress. A more complete description of the COSMOS project can be found at the team website http://www.astro.caltech.edu/~cosmos/

Applicants with previous experience in extragalactic infrared astronomy and with the analysis of spacecraft infrared data are encouraged to apply. The expected starting date is on or after November 1st 2005. Applicants should hold a Ph.D. by the start of the position. The appointments are for one year, renewable for up to two more years based on satisfactory performance and availability of funds. Applicants should send a curriculum vitae, bibliography and statement of research interests, and arrange to have three letters of recommendation sent to Dr. Nick Scoville. Review of applications will begin on September 15, 2005 and will continue until the position(s) is filled. All applicants will be considered for the S-COSMOS positions at both institutions. Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

For additional information you can contact either

Dr. David Sanders Institute for Astronomy, Univ. of Hawaii, 2680 Woodlawn Drive, Honolulu, HI 96822 sanders@ifa.hawaii.edu

Dr. Nick Scoville Astronomy Dept., Caltech 105-24, Pasadena, CA 91125 nzs@astro.caltech.edu

No. 21901
Research Fellowship in Observational Astrophysical Plasmas
OXFORD UNIVERSITY - ST JOHN'S COLLEGE RESEARCH CENTRE
Oxford University
Oxford, Oxon OX1 3JP
United Kingdom
Tel: +44 1865 277318
URL1: http:// http://www.sjc.ox.ac.uk
(Further particulars)
Email Inquiries: katherine.blundell@physics.ox.ac.uk

Attention: Eileen Marston, Academic Administrator

Applications are invited for a three-year Postdoctoral Research Fellowship at the St John's

College Research Centre in Oxford University. The successful applicant will work with Dr Katherine Blundell and Professor James Binney in Oxford and Dr Peter Duffy in University College Dublin on radio and X-ray emitting plasmas associated with radio galaxies and quasars, and microquasars in the Galaxy.

Further particulars are available at http:// http://www.sjc.ox.ac.uk

Informal enquiries may be made to by email to katherine.blundell@physics.ox.ac.uk

No. 21902
Research Fellowship in Theoretical Astrophysical Plasmas
UNIVERSITY COLLEGE DUBLIN
Tel:
URL1: http://www.ucd.ie/math-phy/newappointments/theory_advert.html
(Further Particulars)
Email Inquiries: Peter.Duffy@ucd.ie

Attention: Dr Peter Duffy

Applications are invited for a three-year Postdoctoral Research Fellowship at the School of Mathematical Sciences in University College Dublin which will be funded under Science Foundation Ireland's Research Frontiers Programme. The successful applicant will work with Dr Peter Duffy in UCD and Dr Katherine Blundell and Professor James Binney in Oxford University on the theory of particle transport and acceleration in the radio and X-ray emitting plasmas associated with radio galaxies and quasars, and microquasars in the Galaxy.

Further particulars are available at http://www.ucd.ie/math-phy/newappointments/theory_advert.html Informal enquiries may be made to Peter.Duffy@ucd.ie

No. 21903
Michelson Fellowships
CALIFORNIA INSTITUTE OF TECHNOLOGY
770 So. Wilson Ave.
MS 100-22
Pasadena, CA 91125
USA
Tel: 626-395-1931
URL1: http://msc.caltech.edu
Email Inquiries: gerard@ipac.caltech.edu

Attention: Dr. Gerard van Belle

The Michelson Science Center, California Institute of Technology, solicits applications for the Michelson Fellowship Program. The Michelson Fellowship Program invites applications for postdoctoral and graduate student fellowships in exoplanet research or related field at a US institution. Fellowships that propose astronomical applications or technology development of optical and IR interferometry or coronagraphy are particularly encouraged; proposals relevant

to the science or technology development of Navigator projects, both experimental and theoretical, will also be considered. The program is open to applicants of any nationality.

The duration of the Fellowships is up to three years, including an initial appointment of two years, with extensions contingent on annual performance reviews and availability of NASA funding. Up to three new Michelson Postdoctoral Fellows and three Graduate Student Fellows will be appointed for initial terms starting in September 2006.

The Application Guidelines, which include program policies, application instructions, and forms, are available on the Michelson Science Center public website (http://msc.caltech.edu). The application deadline is Friday, November 11, 2005.

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

No. 21904
NASA Research Fellowships in Astrophysics at Goddard Space Flight Center
GODDARD SPACE FLIGHT CENTER
Tel:
URL1: http://national-academies.org/rap
(NRC website)
URL2: http://universe.gsfc.nasa.gov
(Exploration of the Universe Division)
Email Inquiries: rap@nas.edu

Attention: NAS/NRC

The National Research Council is accepting applications for Postdoctoral Associateships for research in astrophysics to be conducted in the Exploration of the Universe Division at the NASA-Goddard Space Flight Center (GSFC) in Greenbelt, MD. Research activities include data analysis and interpretation, instrument development, laboratory astrophysics, observational astrophysics, theoretical modeling and numerical astrophysics. Programs of research include extrasolar planetary science, Galactic and extragalactic astronomy and cosmology, studies of the cosmic microwave background, gravitational wave astrophysics and numerical relativity, x-ray and gamma-ray astronomy, and cosmic ray physics.

New technologies under development include interferometry from the infrared through the x-ray band, visible coronagraphy and wave-front correction, cryogenic detectors for infrared and x-ray astronomy, x-ray polarimeters, lightweight and ultra-precise optics (infrared through hard x-ray), imaging gamma-ray spectrometers, advanced ultraviolet detectors, and gravitational wave detectors. Opportunities exist for analysis of data from current missions (WMAP, RXTE, Chandra, XMM, Integral, HST, FUSE, GALEX, Swift, and the recently launched Suzaku) and previous space observatories. GSFC is actively involved in the development of new missions such as JWST, TPF, Con-X, LISA, and GLAST, and development of mission concepts and/or instruments for TPF-C, SOFIA, JDEM, the Inflation Probe, Black Hole Finder Probe, as well as a number of Vision Missions and potential Explorer and Discovery missions. GSFC carries out a number of sounding rocket and balloon programs, and opportunities exist for ground-based observing from the IRTF, Keck, CSO, and the National Observatories.

For descriptions of research being carried out in the Exploration of the Universe Division at GSFC, please see the website: http://universe.gsfc.nasa.gov. For specific Associateship research areas, see http://national-academies.org/rap .

The NRC Associateship appointment, initially for one year, is nominally renewable for a second year based on acceptable performance. Extension to a third year is also possible, usually reserved for long-range projects. 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. The deadline for applications is November 1, 2005. Application instructions can be found at: http://national-academies.org/rap. For assistance contact the NRC at 202-334-2760 or email rap@nas.edu.

No. 21905
Scientist
JET PROPULSION LABORATORY
Tel:
Email Submission Address: Glen.E.Kubat@jpl.nasa.gov

Attention: Glen Kubat

The Jet Propulsion Laboratory (JPL) located in Pasadena, CA, a division of the California Institute of Technology (Caltech), seeks to hire a person in the field of observational cosmology. Requirements for the position are: a Ph.D. in Astrophysics, Astronomy, Physics, or a related area, experience in the development of instrumentation, detectors, and detector technology, and a record of publication demonstrating significant scientific results in this general area. It is desired that candidates have one or more years experience since the Ph.D. The successful candidate will conduct scientific research in these areas, publish in scientific journals, and is expected to develop an independent research program.

Applicants should include a letter stating research interests, current curriculum vitae including a list of publications, and the names and contact information for at least three potential references. Please include Requisition #3675 in your correspondence and send your information to Glenn E. Kubat, Employment Manager: Glenn.E.Kubat@jpl.nasa.gov.

To ensure the success of our nation's space program, it is imperative that we employ a work force that mirrors the diversity in the world around us, thereby ensuring access to innovative ideas and creative solutions. JPL is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

No. 21907
MIT Pappalardo Fellowships in Physics
MIT
77 Mass. Ave.
Bldg. NE25-4017
Cambridge, MA 02139
USA
Tel: 617-452-3040
FAX: 617-253-8554

URL1:
http://web.mit.edu/physics/research/pappalardofellowshipsprogram/pappalardofellowshi
(MIT Pappalardo Fellowships in Physics)
Email Inquiries: breen@mit.edu

Attention: Carol Breen, Communications Administrator

Faculty and senior researchers within the international community of physics, astronomy or related fields are invited to nominate candidates for the 2006-09 MIT Pappalardo Fellowships in Physics competition.

Nominees must be men or women of exceptional ability who currently have or will have received a doctoral degree in physics, astronomy or related fields no later than September 1, 2006. Nominations may be submitted either on-line at http://web.mit.edu/physics/newsandevents/pappalardo_nomination_form_06.html , or by requesting a paper nomination form from the Pappalardo Fellowships office.

The NOMINATION DEADLINE for the 2006-09 MIT Pappalardo Fellowships in Physics competition is FRIDAY, SEPTEMBER 16, 2005.

An application form with instructions will be mailed to nominees on a rolling basis up until this deadline.

The MIT Pappalardo Fellowships in Physics program recruits and supports the most talented and promising physicists at an early stage in their careers. Each year, three new Fellows are selected for the three-year fellowship appointments. All Pappalardo Fellows are provided with:

--fully independent, unrestricted choice of research direction within the MIT Department of Physics throughout their three-year fellowship appointment;

--a competitive annual stipend with an annual cost-of-living increase, combined with $5,000 per year in discretionary research funds [first-year Fellows for the 2006-09 academic year will receive an annual stipend of $57,000];

--health insurance coverage for themselves and their dependents; and

--active faculty mentoring fostered by weekly luncheons and monthly dinners with the Department's faculty throughout the academic year.

Note that in order to participate in the MIT Pappalardo Fellowships competition, a candidate can ONLY be nominated by a faculty member or senior researcher within the international community of physics, astronomy or related fields. The Fellowships office cannot accept any materials sent by a self-nominated applicant.

No. 21908
Astrophysicist - Swift Science Center
UNIVERSITIES SPACE RESEARCH ASSOCIATION
10211 Wincopin Circle
Suite 620

Columbia, MD 21044
USA
Tel: 410-740-6247
FAX: 410-730-1359
URL1: http://cpss.usra.edu/resume/index.html
(resume submission link)
Email Submission Address: gpeles@seabrook.usra.edu

Attention: SWIFT-SC-05

ASTROPHYSICIST - SWIFT Science Center The Universities Space Research Association (USRA), in conjunction with the NASA/Goddard Space Flight Center's Exploration of the Universe Division, is seeking a research scientist to work with the NASA Swift Science Center. NASA's Swift satellite is studying gamma-ray bursts and their afterglows with onboard gamma-ray, X-ray and optical/UV instruments. The successful candidate will work in the areas of testing and scientific validation of instrument-specific software, analysis of Swift data, development of data analysis guides and online information, and assistance and advice to the US community for participation in the Swift Guest Investigator program and use of Swift data. It is further expected he/she will devote ~30% time to independent scientific research. Requirements: Ph.D. in Physics, Astronomy, or related disciplines, plus experience in interpretative analysis of gamma-ray, X-ray, and/or optical data, documented by publications. Strong software skills and the ability/interest in effective communication with scientists from a range of research backgrounds are strongly desirable. Salary is competitive and commensurate with experience and qualifications. USRA is a non-profit university consortium, chartered to foster cooperation between universities and the U.S. Government and to advance research and education in space science and technology. EOE. Applications received by October 15, 2005, will receive full consideration. Send letter describing research interests, complete CV, publication list, and contacts for at least three references to: http://cpss.usra.edu/resume/index.html and/or mail to: Universities Space Research Association 10211 Wincopin Circle, Suite 620 Columbia, MD 21044

No. 21909
DISTINGUISHED POSTDOCTORAL FELLOW OPPORTUNITIES IN THEORETICAL ASTROPHYSICS
LOS ALAMOS NATIONAL LABORATORY
Tel:
URL1: http://www.lanl.gov/science/postdocs
Email Inquiries: postdocs@t6.lanl.gov

Attention: Human Resources

The Theoretical Astrophysics group (T-6) at Los Alamos National Laboratory seeks candidates for Distinguished Postdoctoral Appointments in theoretical and computational astrophysics. We have research programs in the fields of: formation and evolution of stars of all mass ranges; planets; core collapse and thermonuclear supernovae; compact objects including general relativistic phenomena, x-ray bursts, gamma-ray bursts, and active galactic nuclei; nuclear astrophysics; gravitational waves; gravitational lensing; and large-scale structure and cosmology. Physics expertise and interests range from magneto- and radiation

hydrodynamics, to nuclear and dense matter physics, to cosmic magnetic fields and numerical relativity and gravitational N-body algorithms. We are pursuing a program on the formation, evolution, and nucleosynthesis of the first stars with emphasis on collapse of massive stars and their explosions that includes modeling of a MHD accretion disk around a black hole. Prize Fellows will have access to the vast computing resources at the lab, including the group and division clusters and can apply additionally for institutional computing time if large computing allocations are needed. LANL is a member of the Sloan Digital Sky Survey Extension (SDSS-II) and of the Joint Institute for Nuclear Astrophysics (JINA), and has a rich community of theoretical and observational astrophysicists and space science efforts beyond the theoretical astrophysics group. Joint appointments with other groups are possible.

This call is specifically for candidates for J. Robert Oppenheimer (JRO) and Richard P. Feynman (RPF) Distinguished Postdoctoral Fellows. Please send a curriculum vitae and statement of research interests to postdocs@t6.lanl.gov by September 15, 2005. After candidate selection we will work with you to assemble a complete package for submission to the LANL Postdoctoral Committee by October 5, 2005. Information on the LANL postdoc programs, including generous benefits and salaries can be found at http://www.lanl.gov/science/postdocs .

American Astronomical Society, 2000 Florida Ave., NW, Suite 400, Washington, DC 20009, USA
202-328-2010 * FAX 202-234-2560 * www.aas.org * aas@aas.org