



April 2005

[Editorial](#) | [Publication Policy](#) | [Job Center](#) | [AAS Homepage](#) | [JOB AD SUBMISSION FORM](#)

[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 insituitions 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@aaas.org. If electronic mail is not available, job announcements, with payment are also accepted by US mail, and by FAX at 202-234-2560.

Frequency and Circulation

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

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

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

Member Notification

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

Jobs from Previous Months

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

No. 21633

Postdoctoral Research position in Astrophysics
PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE
Vic. Mackenna 4860
Macul
Santiago, RM 690441
Chile
Tel: 562-354-4940
FAX: 562-354-4948
URL1: <http://www.astro.puc.cl>
(Departamento de Astronomía y Astrofísica)
Email Submission Address: jobs@astro.puc.cl
Email Inquiries: linfante@astro.puc.cl

Attention: Leopoldo Infante, Professor

The Department of Astronomy and Astrophysics of the Pontificia Universidad Católica, located in Santiago, Chile, invites applications for up to two postdoctoral research positions in the areas of interest of its faculty members.

These include observational and theoretical cosmology, groupings of galaxies on all scales from pairs to superclusters, galaxy formation and evolution, Galactic structure, microlensing, stellar populations, globular clusters, stellar structure and evolution, extrasolar planets, variable stars, neutron stars, supernovae and mm and submm astronomy.

The selected applicants will be sponsored by postdoctoral research grants from several different major sources to which our department has access, including CONICYT, the FONDAF Center for Astrophysics, ESO, ALMA and Gemini.

The grants provide salary and research funds to work at the Department of Astronomy and Astrophysics for up to three years, starting as early as possible.

During this period, fellows are eligible to apply for the 10% Chilean time share at all telescopes located in international observatories in the country, including the VLTs, Gemini, and Magellan, in addition to the other telescopes at La Silla, CTIO, ESO and Las Campanas observatories.

Information about our Department is available at <http://www.astro.puc.cl>.

Applicants should send, before 31 May 2005, and preferably by e-mail, their CV, publication list, statement of research interests, and arrange for three letters of recommendation to be sent to Professor Leopoldo Infante, at the above address.

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. 21636

**Director of the Institute of Geophysics and Planetary Physics
UCLA INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS**

405 Hilgard Ave

LA, CA 90095

USA

Tel:

URL1: <http://www.igpp.ucla.edu>

(institutional website)

Email Inquiries: jcm@atmos.ucla.edu

Attention: James McWilliams, Professor

Director Institute of Geophysics and Planetary Physics University of California, Los Angeles

The branch of the Institute of Geophysics and Planetary Physics (IGPP) at UCLA proposes to appoint a distinguished scientist and scholar to serve as Director.

The Director should be an active, internationally renowned researcher with a broad knowledge of Earth and space sciences and a demonstrated record of leadership. The Director will concurrently serve in a tenured faculty position in a related teaching department. The new Director should envision the opportunities ripe for significant development and work with the faculty to assure that the IGPP continues to lead important advances.

The IGPP, founded in 1946, promotes basic research in geophysics, physical oceanography, planetary and space physics, geochemistry, astrophysics, paleobiology, and climate. It works to foster excellence in research and teaching, to pioneer new scientific areas, and to conduct collaborative projects within UCLA and with other IGPP branches at the University of California and the Los Alamos and Lawrence Livermore National Laboratories. The 28 IGPP-UCLA faculty members hold joint appointments in one or more of the following Departments: Atmospheric and Oceanic Sciences, Biology, Chemistry, Earth and Space Sciences, Mathematics, and Physics and Astronomy. The faculty work in close collaboration with 35 Research Scientists, graduate students, and staff.

Applications received before April 30, 2005 will be given full consideration. The application must include; letter of interest, curriculum vitae, 7-10 referee names and addresses, and electronic copy of significant publications across your career. Inquiries and applications should be directed to Prof. James McWilliams, Chair of the Search Committee, IGPP, UCLA, Los Angeles, CA 90095-1567; jcm@atmos.ucla.edu. The University of California is an equal-opportunity employer.

No. 21637

ALMA Project Scientist

**NATIONAL RADIO ASTRONOMY OBSERVATORY/EUROPEAN SOUTHERN
OBSERVATORY**

**520 Edgemont Road
Charlottesville, Virginia 22903
USA
Tel:
URL1: <http://www.nrao.edu>
(NRAO Home page)
URL2: <http://www.eso.org>
(ESO Home page)**

Attention: Robert D'Angio, Human Resources Manager

The Atacama Large Millimeter Array (ALMA) is an international astronomy facility. ALMA is an equal partnership between Europe and North America, in cooperation with the Republic of Chile. It is funded in North America by the U.S. National Science Foundation (NSF) in cooperation with the National Research Council of Canada (NRC), and in Europe by the European Southern Observatory (ESO) and Spain. ALMA construction and operations are led on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI), and on behalf of Europe by ESO. ALMA will be a millimeter-submillimeter wave interferometer consisting of an array of 12m diameter antennas located on the Chajnantor Altiplano in the Atacama Desert of northern Chile. ALMA will be equipped initially with dual-polarization receivers covering 4 atmospheric windows: 84 – 119 GHz, 211 – 275 GHz, 275 – 370 GHz, and 602 – 720 GHz. The above mentioned parties/partners created the Joint ALMA Office (JAO) which is responsible for the overall leadership and management of construction, commissioning, and operation of the ALMA Observatory. In addition the National Astronomical Observatory of Japan (NAOJ) will contribute additional antennas and receivers to the project.

ESO/NRAO are now seeking applications for an ALMA Project Scientist, who will be part of the staff of the JAO. The Project Scientist is responsible for ensuring that ALMA is constructed, commissioned and operated in such a manner as to meet the scientific requirements of the ALMA Agreement.

Essential duties and responsibilities: • Defining and maintaining the top-level scientific requirements and scope of the project. • Establishing the scientific requirements for the ALMA system, working in conjunction with the IPT Leaders, and their Deputies. • Together with the European PS, North American PS and Japanese PS leading the global effort of the Science IPT • Setting scientific requirements for various discipline areas • Final responsibility of reviewing and monitoring compliance of all ALMA documents with the scientific requirements • Responsible for the ALMA commissioning • Responsible for the ALMA scientific activities in Santiago

The ALMA Project Scientist reports to the ALMA Director.

Education and/or Experience: The ALMA Project Scientist will have a Ph.D. in astronomy, astrophysics, or a related field as well as an established record of scientific and technical publication. The ALMA Project Scientist must have at least 10 years of prior experience in astronomical observatory science operations, with at least five years in a leadership role. Knowledge and experience in radio astronomical interferometry as well as international scientific projects is highly desirable. Strong leadership, excellent communication skills, and an

excellent command of the English language are essential.

Duty Station: Santiago de Chile. Frequent travel to the different locations where ALMA construction is performed is required.

Starting date: As soon as possible.

Contract: The initial contract is for a period of three years with the possibility of a fixed-term extension or permanence.

All applications should include the names of five individuals willing to serve as professional references for the applicant. Applications should be sent to the Personnel Office, at either of the following addresses: ESO, Karl-Schwarzschild-Str. 2, Garching, D-85748, Germany; or NRAO*, 520 Edgemont Road, Charlottesville VA 22903 USA. A Search Committee will begin reviewing applications on March 15, 2005. Applications will be considered until the position is filled.

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

*The National Radio Astronomy Observatory is operated by Associated Universities, Inc. (AUI) under cooperative agreement with the National Science Foundation. Further information is available on www.nrao.edu. The NRAO is an equal opportunity employer (M/F/H/V).

No. 21648

Research Associate in Experimental/observational Cosmology

UNIVERSITY OF MINNESOTA

School of Physics & Astronomy

116 Church St. SE

Minneapolis, MN 55455

USA

Tel:

Email Inquiries: hanany@physics.umn.edu

Attention: Shaul Hanany, Associate Professor

The observational cosmology group in the Department of Physics at the University of Minnesota/Twin Cities invites applications for two research associate openings in experimental/observational cosmology. The successful candidate will develop instruments to measure the polarization of the cosmic microwave background (CMB) radiation, will work on related technologies and will analyze data from existing experiments. They will also have the opportunity to lead the work on a newly funded balloon borne experiment. Previous experience with cryogenic equipment, mm-wave optics, or other CMB experiments is an advantage, however excellent candidates without such experience will also be considered.

The cosmology group at the University of Minnesota/Twin Cities is in a growth phase. In addition to the experimental and data analysis activities in CMB the group is involved in

theoretical and observational work in astro-particle physics, big bang nucleosynthesis, nuclear astrophysics, HE abundance and dwarf galaxies.

Applicants should send a C.V., list of publications, a summary of research activities and interests and three letters of reference. Electronic applications in the form of .ps, .pdf. or .doc files are preferred but postal mail is acceptable. Review of applications will begin immediately and continue until April 30, 2005 or until suitable candidates have been hired.

No. 21654

Professor of Physics

UNIVERSITY OF NEW HAMPSHIRE

Tel:

URL1: <http://www.eos.unh.edu>

URL2: <http://www.ceps.unh.edu>

URL3: <http://www.unhjobs.com/applicants/Central?quickFind=179086>

(Quick link to apply for position)

Attention: Search Committee

The University of New Hampshire- The Department of Physics and the Space Science Center within the Institute for the Study of Earth, Oceans and Space at the University of New Hampshire, seek candidates at any rank for a joint tenure-track faculty position in Theoretical Solar and Heliospheric Physics, or in the broad area of Astrophysical Plasma Physics with emphasis on the Sun.

This position could begin as early as the 2005-2006 academic year. The applicant must have a Ph.D. or equivalent in Physics, Astronomy or Astrophysics, at least 5 years of postdoctoral experience, a strong commitment to teaching, and a demonstrated record of independent research and support. Responsibilities include teaching physics courses at all levels, participation in Department, College, and Institute academic activities, and leading a strong theoretical research program. Out-standing applicants in all areas of space plasma physics will be considered, but particular consideration will be given to applicants with strong experience in solar and heliospheric theory and modeling.

The Physics Department has twenty tenure-track faculty and offers programs leading to the B.S., B.A., M.S. and Ph.D. degrees; the Institute spans a broad range of research in Earth and Space science and has 64 faculty on both research and tenure tracks. The University is a Land Grant, Sea Grant and Space Grant institution with approximately 13,000 under-graduate and graduate students. At the University, we are committed to promoting an atmosphere that is diverse enough to be intellectually and socially enriching for students, faculty, and staff. Please see <http://www.eos.unh.edu/> and <http://www.ceps.unh.edu/> .

To apply for this position, copy the quick link and type or paste in your browser's address bar to return directly to this vacancy: www.unhjobs.com/applicants/Central?quickFind=179086 Please attach letter of application, curriculum vitae, statement of research, and the names, addresses and telephone numbers of three references. Consideration of applications will begin on March 7, 2005 and will continue until the position is filled. The University of New Hampshire is committed to excellence through diversity among its faculty and strongly encourages women and minorities to apply.

No. 21656
Faculty Position in Radio Astronomy
WEST VIRGINIA UNIVERSITY
Dept. of Physics
PO BOX 6315
Morgantown, WV 26506-6315
USA
Tel: 304-293-3422 x1454
FAX: 304-293-5732
URL1: <http://www.as.wvu.edu/employment/RadioAstronomy.html>
URL2: <http://www.as.wvu.edu/phys>
Email Inquiries: john.littleton@mail.wvu.edu

Attention: John E. Littleton, Professor

The West Virginia University Department of Physics invites outstanding applicants for a faculty position to initiate a new research focus area in Radio Astronomy beginning as early as the Fall of 2005. Qualified candidates can be considered at the Assistant Professor rank or higher. The successful candidate is expected to help establish and lead a nationally competitive research program in radio astronomy. The National Radio Astronomy Observatory is very interested in developing collaborative arrangements, including a joint appointment, to help recruit the best possible candidate to lead this new effort in West Virginia. All areas of research interest in Radio Astronomy will be considered. Applicants with interests in developing forefront instrumentation or experimental facilities are also encouraged to apply. Minimum requirements are a Ph.D. in physics, astronomy, or a field closely related to radio astronomy, and a commitment to and talent for teaching physics and astronomy at both the undergraduate and graduate level. To apply, send (1) a curriculum vitae including a list of publications and relevant teaching experience, (2) a description of present research interests and future plans, and (3) a detailed budget for startup needs. Applicants should arrange for three letters of recommendation to be sent separately. Address applications to Prof. J. E. Littleton, WVU Dept. of Physics, P.O. Box 6315, Morgantown, WV 26506-6315. Single file applications in pdf format can be e-mailed to sbyrne@wvu.edu. Review of applications will begin March 15, 2005. West Virginia University is an affirmative action, equal opportunity employer.

No. 21660
Program Officer, Advanced Technologies and Instrumentation in Optical/IR Astronomy
NATIONAL SCIENCE FOUNDATION
4201 Wilson Blvd.
Arlington, VA 22230
USA
Tel: 703-292-4895
FAX: 703-292-9034
URL1: <http://www.nsf.gov/jobs>
Email Submission Address: epenteco@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 Officer, Advanced Technologies and Instrumentation in Optical/IR Astronomy. The candidate will have primary responsibility for the oversight, coordination and management of grants programs and projects involving optical/IR instrumentation and technology development, including the optical/IR component of the Division's Advanced Technologies and Instrumentation (ATI) program, the Program for Research and Education with Small Telescopes (PREST), and the NSF-wide instrumentation programs such as the Major Research Instrumentation (MRI) program. In consultation with other Program Officers in the Division, the candidate will coordinate these programs with the ongoing instrumentation and technology development efforts at the national observatories (Gemini, NOAO, NSO) in order to develop and optimize an efficient and cost-effective system of ground-based optical/IR instrumentation. The candidate may manage or assist in the review and administration of projects involving the design and development of future facility-class instruments or observing capabilities. The candidate will be involved in activities that include planning, budget development, the merit review and proposal recommendation process, the preparation of written material about the research supported by the Division, and liaison with other NSF programs, Federal agencies and organizations. 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 permanent or a temporary basis to commence in early 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 E20050047, 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 April 15, 2005. Applicants should refer to vacancy announcement number E20050047. 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. 21668**Two one-year post-doctoral positions in RTN Network Gamma-Ray Bursts****MAX-PLANCK-INSTITUT FUER ASTROPHYSIK****Karl-Schwarzschild-Str. 1****Garching bei Muenchen, Bavaria 85748****Germany****Tel: +49 89 30000 2244****FAX: +49 89 30000 2899****URL1: http://www.mpa-garching.mpg.de/~sazonov/grb_position.html****Email Submission Address: sunyaev@mpa-garching.mpg.de*****Attention: Professor Rashid Sunyaev, Managing Director***

Two one-year post-doctoral positions at the Max-Planck-Institut fuer Astrophysik RTN Network "Gamma Ray Bursts: an Enigma and a Tool"

In the framework of the Research and Training Network (RTN) "Gamma-Ray Bursts: an Enigma and a Tool", the Max Planck Institute for Astrophysics is now accepting applications for two one year post-doctoral positions in the field of theoretical modeling of gamma-ray burst physics. Details regarding the application procedure and the requirements can be found at:

http://www.mpa-garching.mpg.de/~sazonov/grb_position.html .

The starting date is flexible.

We would be very grateful if you could forward this information to students and postdoctoral researchers working on related subjects. Please note that the positions are open to all EU citizens and to citizens of associated countries, except for citizens of the country where the host institute is located, i.e. Germany.

No. 21671

VISITING GRADUATE STUDENT SHORT-TERM FELLOWSHIPS

CALIFORNIA INSTITUTE OF TECHNOLOGY

1200 E. California Blvd.

M.S. 220-6

Pasadena, CA 91135

USA

Tel:

URL1: <http://spider.ipac.caltech.edu/staff/apple/VGSP.html>

Email Submission Address: apple@ipac.caltech.edu

Email Inquiries: apple@ipac.caltech.edu

Attention: Dr. Philip Appleton

The Spitzer Science Center (SSC) announces the availability of six-month graduate-student fellowships beginning summer 2005 designed to allow students from institutions throughout the world to visit the SSC and perform astronomical research in close association with an SSC staff scientist during 2005/2006. The program provides an opportunity to work at the SSC during the Spitzer Space Telescope mission, and share in the excitement of NASA's latest Great Observatory. A web page (see below) provides additional details, including available SSC staff contacts with whom you might work during the coming year. Applicants would normally be expected to have completed preliminary course work in their graduate program and be available for research during the period of the award. Funding from the SSC will provide for a 6-month stipend, plus a round-trip airfare to the SSC from the home institution. Preference will be given to students who are available in the Summer/Fall of 2005. Typically, 4 students per year will be accepted into the program. Application instructions are available at the web site <http://spider.ipac.caltech.edu/staff/apple/VGSP.html> . Applications are due by 15 May 2005. Email submissions will not be accepted.

No. 21674

Visting Professor of Astronomy

POMONA COLLEGE
610 N. College Ave.
Claremont,, CA 91711
USA
Tel: (909) 621-8726
FAX: (909) 621-8463
URL1: <http://www.physics.pomona.edu>
(Physics/Astronomy Home Page)
URL2: <http://www.astronomy.pomona.edu>
(Astronomy Home Page)
Email Submission Address: tmoore@pomona.edu

Attention: Thomas A. Moore, Professor of Physics, Chair

Visiting Faculty Position in Astronomy, Pomona College

The Department of Physics and Astronomy at Pomona College, the founding member of the Claremont Colleges, invites applications for a one-year visiting position at the level of Assistant Professor beginning July 1, 2005. Candidates must have a strong commitment to quality undergraduate teaching in a liberal arts environment, and those with significant teaching experience are especially encouraged to apply. Teaching responsibilities will include introductory astronomy with laboratory, advanced topics courses in astrophysics, and general physics laboratory. We are especially looking for an observational astronomer who can involve our students in research using our research-grade 1-m telescope at a dark mountain site near campus. Applicants should send a letter of interest, curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, a summary of research plans, and three letters of reference to Professor Thomas A. Moore, Department of Physics and Astronomy, Pomona College, Claremont, CA 91711. Email: tmoore@pomona.edu. See www.physics.pomona.edu and www.astronomy.pomona.edu for more information about our department. Review of completed applications will begin March 18, 2005. Pomona College is an equal opportunity employer, and it especially invites applications from women and members of under-represented groups.

No. 21677
Postdoctoral Position in Adaptive Optics
UNIVERSITY OF CALIFORNIA LOS ANGELES
475 Portola Plaza
Box 951547
Los Angeles, CA 90095-1547
USA
Tel: 310-206-0420
FAX: 310-206-2096
URL1: <http://www.astro.ucla.edu/~ghez>
Email Submission Address: ghez@astro.ucla.edu
Email Inquiries: ghez@astro.ucla.edu

Attention: Andrea Ghez, Professor

The Department of Physics and Astronomy at University of California Los Angeles invites applications for a postdoctoral research position in adaptive optics. The successful applicant will join Prof. Andrea Ghez's group, which currently carries out research on the Galactic center, the formation of low mass stars and brown dwarfs, and the formation and evolution of circumstellar disks. This work is carried out primarily at the W. M. Keck 10-m telescopes. Applicants interested in any of the above areas are welcome to apply.

A PhD in astronomy or physics and previous experience in the general area of high spatial resolution is preferable. The initial appointment is for two years, with the possibility of a third year, beginning in the Fall 2005. To apply, send your curriculum vitae, a letter of application, and 3 letters of reference to

Prof. Andrea Ghez Department of Physics and Astronomy UCLA 475 Portola Plaza Los Angeles, CA 90095-1547

by May 1, 2005.

For further information contact Andrea Ghez (ghez@astro.ucla.edu). UCLA is an affirmative action/equal opportunity employer; women and members of minorities are especially encouraged to apply for these positions.

No. 21678
SYSTEM/SOFTWARE SPECIALIST
NORDIC OPTICAL TELESCOPE
Apartado 474
Spain
Tel: +34 922 425 472
FAX: +34 922 425 475
URL1: <http://www.not.iac.es>
(Nordic Optical Telescope)
Email Submission Address: tau@not.iac.es

Attention: Dr. Thomas Augusteijn, Astronomer in Charge

The Nordic Optical Telescope Scientific Association (NOTSA) invites applications for a position as System/Software Specialist (SSS), available immediately.

NOTSA operates the 2.6-m Nordic Optical Telescope (NOT) at the 'Roque de los Muchachos' observatory on the island of La Palma, Canary Islands, Spain. NOT has an international on-site staff of about 15 astronomers, engineers, and students. Most of the work will be performed in our sea level offices in Santa Cruz de La Palma, but some support work will involve a small number of nights per month at the telescope.

The computer system is primarily Linux-based (Redhat, Debian) and comprises more than 40 computers, distributed between the sea level office and the mountaintop observatory. The SSS will be responsible for computer system administration, including maintenance, upgrades and emergency support, but will also participate in developing software applications and give occasional technical support at the telescope. In-depth knowledge of networked Linux system administration is required; experience with Perl, C, PHP, Python and the use of databases is

desirable.

The appointment is initially for 4 years and requires residence on La Palma. The net income after deduction of tax and social charges will be in the range approx. 35.000-50.000 Euros per year, depending on qualifications.

The closing date for receipt of applications is April 30, 2005.

Further information may be obtained from the NOT webpage and the email address provided above, or from the NOTSA Director, Dr. Johannes Andersen, Copenhagen Observatory, Denmark (tel.: +45 5943 8982, fax: +45 3532 5989; e-mail: ja@not.iac.es).

No. 21680

Editor-in-Chief, The Astrophysical Journal

AMERICAN ASTRONOMICAL SOCIETY

2000 Florida Avenue NW

Suite 400

Washington, DC 20009

Tel: 202-328-2010

FAX: 202-234-2560

Email Submission Address: ApJ_Search@aaas.org

Attention: Patrick Osmer, Chair, ApJ Editor-in-Chief Search Committee

The American Astronomical Society is soliciting applications and nominations of candidates for the position of Editor-in-Chief of The Astrophysical Journal (ApJ). This person will replace the current Editor-in-Chief, Robert Kennicutt, who is stepping down at the end of his current term in 2006. The ApJ is internationally known as the pre-eminent scholarly journal in astronomy and astrophysics, and the new Editor-in-Chief will be responsible for maintaining the continued excellence of the Journal. The AAS Council has selected the current Publications Board, along with Dr. John S. Gallagher, Editor Astronomical Journal, to serve as the Search Committee to fill this position. The Search Committee has identified the following qualifications that must be satisfied by the successful applicant:

1. Recognized stature and achievement in astronomy and astrophysics.
2. Experience as an Administrator managing both peers and staff.
3. A clear vision for the future of the ApJ both as a print and an electronic journal.
4. Familiarity with budgets.
5. Experience as a referee.
6. Previous editorial experience would be useful but is not required.

The Editor-in-Chief is responsible for the editorial policies and standards for the Journal and handles peer reviews of some of the papers. The Editor-in-Chief assigns most manuscripts submitted to the ApJ to one of the Scientific Editors, who in turn selects the referees, assesses

the referee's reports and recommends the papers for publication. The Editor-in-Chief is responsible for maintaining the efficient and timely flow of manuscripts. As part of this process, this person will also:

1. Provide management and editorial oversight and support to the Scientific Editors.
2. Manage the staff of the editorial office.
3. Participate in the establishment and management of the Journal Budget.
4. Work closely with the University of Chicago Press to maintain the continuing high quality of the ApJ.
5. Work closely with the AAS Executive Office, the UC Press, the Publications Board, and the other Editors to plan the future of electronic publishing.
6. Report to the Publications Board and the AAS Council on the status of the ApJ.
7. Will lead the Search and choose new Scientific Editors as vacancies occur.

The Editor-in-Chief operates from his/her home institution and is compensated at roughly a half-time level through a contract from the AAS to that institution. The AAS will negotiate the level of effort for any other staff as required for the ApJ Editorial Office. The current operating structure of the editorial office includes an editorial manager, a staff scientist, and one additional full-time position.

Candidates for this position should submit a cover letter, CV, bibliography, and names of three references to Patrick Osmer, Chair of the Search Committee, at the above address. Email submission of PDF files will also be accepted.

Nominations for the position may also be sent to the same address.

Selected candidates will be asked to provide evidence of institutional support for their assuming the above editorial duties.

The cover letter should address the candidate's qualifications, reason for interest in the position, and ideas for the operation, management, and future of the ApJ. The AAS Publications Board will make its recommendations to the AAS Council. The final selection is made by the Council. Applications and nominations received by 1 June 2005 will be given full consideration. AAE/EOE.

New Jobs This Month

No. 21681
Assistant Research Astronomer
UNIVERSITY OF CALIFORNIA, BERKELEY
601 Campbell Hall
Berkeley, CA 94720-3411
U.S.A.
Tel: 510 642 1969

FAX: 510 642 3411

Email Submission Address: mwhite@berkeley.edu

Attention: Martin White

ASSISTANT RESEARCH ASTRONOMER University of California at Berkeley Department of Astronomy

We have an opening for an Assistant Research Astronomer in the field of astronomy. Work will commence on October 1, 2005, the appointment may start on an earlier date, if mutually convenient. The initial appointment is for one year, with renewal expected if progress is satisfactory and funds continue to be available. The salary range is \$53,900 - \$69,700. The starting salary will be commensurate with experience, and competitive with other assistant research positions. Duties include work with the APEX-SZ team on data-analysis challenges facing the APEX-SZ experiment, the design processing pipeline, instrument modeling and theoretical interpretation of the APEX-SZ results. The successful candidate will participate in writing proposals and papers. Minimum qualifications include a Ph.D. in astronomy or physics and previous experience with processing CMB data and numerical simulations of structure formation. Please mail a resume, list of publications and list of three people who could provide reference letters upon request, so that they are postmarked by May 1, 2005 to Prof. Martin White, Department of Astronomy, 601 Campbell Hall, UCB, Berkeley, CA 94720-3411. UC is an Equal Opportunity/Affirmative Action Employer.

No. 21682

**Assistant Professorship in Experimental Solar-Terrestrial Science
NEW JERSEY INSTITUTE OF TECHNOLOGY (NJIT)**

Physics Department

323 Martin Luther King Blvd

Newark, NJ 07102-1982

USA

Tel: 973-596-5343

FAX: 973-596-3617

URL1: <http://solar.njit.edu/>

(Center for Solar-Terrestrial Research)

URL2: <http://www.njit.edu/>

(New Jersey Institute of Technology)

Email Submission Address: louis.j.lanzerotti@njit.edu

Email Inquiries: louis.j.lanzerotti@njit.edu

Attention: Prof. Louis Lanzerotti, Chair of the Solar-Terrestrial Search Committee

The Department of Physics announces an opening at the Assistant Professor level to be funded jointly by the NSF-ATM Faculty Bridge Program and the New Jersey Institute of Technology. The tenure track faculty position will be based within the Center for Solar-Terrestrial Research (CSTR), an internationally recognized center with an outstanding solar physics program. The Center operates the Big Bear Solar Observatory and the Owens Valley Solar Array. The Center also has an active ground-based program in ionosphere and magnetosphere research using instrumentation at several locations in the Antarctic, and is

involved in several space plasma missions, including Ulysses and ACE. We are seeking an outstanding individual with a strong background in experimental ground-based ionosphere/magnetosphere research. The individual is expected to have an excellent education and research background in instrument design and implementation for ground based space plasma research and to develop a research program which involves students (graduate and undergraduate). The individual will be expected to take an active role in the CSTR and NJIT, and to contribute intellectually to the cultural diversity of this urban research university. Evaluation of applications will commence on 1 May 2005. Application letters, together with a CV, a list of publications and at least three references should be sent to Prof. Louis Lanzerotti. NJIT is an equal opportunity/affirmative-action employer.

No. 21683

POSTDOCTORAL POSITION IN INFRARED SPECTROSCOPY

UNIVERSITY OF CENTRAL FLORIDA

USA

Tel:

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

Email Submission Address: ege@physics.ucf.edu

Email Inquiries: ege@physics.ucf.edu

Attention: Eduardo Martin, Professor

The Planetary Science Group at the Physics Department of the University of Central Florida in Orlando invite applications for a postdoctoral position, which could begin in fall 2005. Our scientific interests range from solar system bodies to extrasolar planets and brown dwarfs. Applicants with interests in any of these topics are encouraged to apply.

Requirements: PhD obtained after 1996. Significant experience working with infrared spectroscopic data and/or models would be an advantage.

Duration: Three years. A review of the postdoctoral fellow performance will be made after the first year.

Salary: The initial salary will depend on the experience and family situation of the applicant, but shall be no less than USD 36,000 per year before taxes.

Applications: send by email CV, publications list, statement of research interests, and the names and addresses of three researchers familiar with your work that are willing to provide reference letters for you. Applications will start to be reviewed on 3 June 2005 and will continue to be reviewed until the position is filled.

Selection committee: Prof. Eduardo Martin ege@physics.ucf.edu

Prof. Humberto Campins campins@physics.ucf.edu

Prof. Dan Britt britt@physics.ucf.edu

Prof. Laura Woodney woodney@physics.ucf.edu

No. 21684
Visiting Assistant Professor of Physics #R2356
BATES COLLEGE
Academic Services
2 Andrews Road, 7 Lane Hall
Lewiston, ME 04240
USA
Tel:
URL1: <http://www.bates.edu>

Attention: Physics and Astronomy Search (#R2356)

The Bates College Department of Physics and Astronomy invites applications from physicists and astrophysicists for a one-year position as Visiting Assistant Professor, beginning September 2005. The successful candidate must demonstrate interest in teaching in a vigorous undergraduate program, welcome the opportunity for close interaction with students, and be able to guide research by advanced undergraduate physics majors. Outstanding applicants who are ABD will be considered. Salary is competitive. Review of applications begins March 28, 2005, and will continue until the position is filled. Please mail a letter of application, curriculum vitae, brief statement of teaching and research interests, copies of graduate and undergraduate transcripts and three letters of recommendation. Bates College values a diverse college community and seeks to assure equal opportunity through a continuing and effective Affirmative Action Program.

No. 21685
Postdoctoral Fellow in the X-ray group
MAX-PLANCK-INSTITUT FÜR EXTRATERRESTRISCHE PHYSIK
Gießenbachstraße
Germany
Tel: 49 89 30000 3403
FAX: 49 89 30000 3404
URL1: <http://www.mpe.mpg.de>
(MPI fuer extraterrestrische Physik)
URL2: <http://wave.xray.mpe.mpg.de/>
(X-Ray Astronomy)
Email Submission Address: ghasinger@mpe.mpg.de
Email Inquiries: skomossa@mpe.mpg.de

Attention: Prof. Guenther Hasinger, Director

The X-ray group at the Max Planck Institute for extraterrestrial Physics in Garching, Germany, invites applications for a postdoctoral research position starting as early as August 1, 2005.

The successful applicant will work with Prof. Guenther Hasinger and collaborators, and should have research interests compliant with the main activities of the group, i.e. physics of AGN, X-ray imaging and spectroscopy, X-ray background, deep fields, multi-wavelength surveys, black hole formation and evolution, galaxy mergers. The appointee is encouraged to actively participate in the research projects at MPE. The institute plays a leading role in several X-ray

survey projects, is a member of the XMM-Newton Survey Scientist Consortium and has guaranteed time on Chandra.

Several astrophysical research facilities are near MPE such that excellent possibilities exist for interaction with other astronomers working in the same or related fields.

The position is for two years initially, with a possible renewal for a third year.

Applicants should have a PhD in Astronomy. They should submit a CV, list of publications, statement of research interests and accomplishments, and should arrange for three letters of recommendation to be sent before May 1 2005 to the above address.

The Max Planck Society is an equal opportunity employer.

No. 21686

**POSTDOCTORAL POSITION IN HELIOSEISMOLOGY
MAX PLANCK INSTITUTE FOR SOLAR SYSTEM RESEARCH**

Tel:

URL1: <http://www.mps.mpg.de/en/aktuelles/>
(MPS Jobs)

Email Submission Address: lgizon@solar.stanford.edu

Email Inquiries: lgizon@solar.stanford.edu

Attention: Dr. Laurent Gizon

The Max Planck Institute for Solar System Research in Katlenburg-Lindau, Germany, invites applications for a postdoctoral fellowship in helioseismology.

The position is available as early as 1 May 2005 for a period of two years with the possibility of an extension.

The applicant should have a PhD in physics, geophysics, astronomy, applied mathematics, or scientific computing. Experience or interest in system administration is a plus, but is not required. Geoseismologists are encouraged to apply.

Applications should include a curriculum vitae, list of publications, contact information for two references, and a proposed startup date. Candidates must submit their application or inquiries electronically to Dr. Laurent Gizon at lgizon@solar.stanford.edu (PDF format preferred). Screening of applications begins immediately.

No. 21687

**SPACE SCIENCES LABORATORY SENIOR FELLOW PROGRAM
UNIVERSITY OF CALIFORNIA, BERKELEY**

**Space Sciences Laboratory
Berkeley, California 94720**

USA

Tel:

Attention: Judith A. Jones, Human Resources Manager

Professors Adrian Lee, William Holzzapfel, and Paul Richards invite applications for the position of Senior Fellow at the Space Sciences Laboratory. Primary responsibilities will include participation in the design and fabrication of POLARBEAR, a ground-based Cosmic Microwave Background (CMB) polarization experiment. Also, the position will include participation in a NASA funded study for a future CMB polarization satellite (EPIC) and a NASA funded CMB polarization balloon project (EBEX). We seek a candidate to lead the telescope and receiver design for POLARBEAR. Desired qualifications include experience in optical design, low-temperature techniques, and CMB observations. A Ph.D. in experimental physics or astrophysics and an active publication record are required. Senior Fellows receive Principal Investigator status and will be expected to develop self-supporting research groups and participate in the supervision of graduate student research. Some start-up funds are available. The level, to be determined at the time of appointment, will be Assistant, Associate, or Full Research Scientist, depending on qualifications.

Vita, bibliography, state of prospective research program, and three letters of reference should be sent by May 1, 2005 to Judith A. Jones, Human Resources Manager, Space Sciences Laboratory, University of California at Berkeley, Berkeley, California 94720. The University of California is an Affirmative Action/Equal Opportunity Employer. Reviewers should read the UC confidentiality statement located at: <http://apo.chance.berkeley.edu/evalltr.html> .

No. 21688

University Research Fellowship in Nearby Galaxy Research

UNIVERSITY OF HERTFORDSHIRE

Centre for Astrophysics Research

College Lane

Hatfield, Hertfordshire AL10 9AB

United Kingdom

Tel: +44 - 1707 - 284500

FAX: +44 - 1707 - 284514

URL1: <http://strc.herts.ac.uk/astro/>

(Centre for Astrophysics Research)

URL2: <http://recruitment.herts.ac.uk/recruit/>

(Personnel Department recruitment page)

Email Submission Address: jhh@star.herts.ac.uk

Email Inquiries: jhh@star.herts.ac.uk

Attention: James H. Hough, Professor

Applications are invited for a University Research Fellowship. Some preference will be given to candidates working on Galaxies in the Local Universe, but all those with interests in any of the programmes within the Centre for Astrophysics Research are encouraged to apply. The post is available for 3 years in the first instance, and can start from 1st September 2005.

Candidates should have a PhD, or expect to be awarded a PhD before the start date. The appointment will be on a salary scale ranging from £22,507 to £24,450 p.a., but might be higher for exceptional candidates.

Informal enquiries to Professor James Hough, Director of Astronomy Research, Centre for

Astrophysics Research (telephone: +44 1707 284500, fax: +44 1707 284514; e-mail: jhh@star.herts.ac.uk). Also see <http://strc.herts.ac.uk/astro/> for additional information on the Research Centre.

Further details of the above post and application forms can be obtained on-line at <http://recruitment.herts.ac.uk/recruit/> or from the Personnel Department at the University of Hertfordshire, College Lane, Hatfield, Hertfordshire AL10 9AB, England, or telephone +44 1707 284802, quoting reference number L6155X. Applications (which should be accompanied by a full CV and personal statement) should be returned to Professor James Hough or to the Personnel Department at the above address.

Applicants should arrange for 2 references to be sent to Professor James Hough or to Personnel by the closing date of May 1, 2005. The University is an equal opportunity employer.

No. 21690

Postdoctoral Fellowship in Stellar Oscillations

UNIVERSITY OF SYDNEY

Carslaw Building, (F07)

University of Sydney

Sydney, NSW 2006

Australia

Tel:

URL1: <http://www.bull.usyd.edu.au/personnel/FMPro?-db=per%5fvacancy.fp5&-format=jobdetail.html&-recid=36487&-find=>

(Application Information)

Email Submission Address: jobapps@cst.usyd.edu.au

Email Inquiries: bedding@physics.usyd.edu.au

Attention: The Personnel Officer, College of Sciences and Technology

Applications are invited for a Postdoctoral Fellow to work with Associate Professor Tim Bedding and collaborators on Stellar Oscillations.

The successful applicant must possess a PhD in Astronomy or equivalent (or be about to obtain a PhD, which must be completed before taking up the appointment). The successful applicant must also show proven ability for excellence in research, show evidence of ability to work cooperatively with others and have excellent communication skills. Experience in making and analysing observations of stellar pulsations is highly desirable.

The position is full-time fixed term for three years, subject to the completion of a satisfactory probation period for new appointees.

Applicants are encouraged to contact Associate Professor Tim Bedding on (02) 9351 2680 or e-mail: bedding@physics.usyd.edu.au before applying or for further information. Applicants should quote Reference Number A09/005712.

Closing date: 12 May 2005

No. 21691

Research Associate in Cosmic Microwave Background Polarimetry
UNIVERSITY OF CAMBRIDGE, DEPARTMENT OF PHYSICS
Cavendish Laboratory
Madingley Road
Cambridge, Cambridgeshire CB3 0HE
UK
Tel: +44 1223 337294
FAX: +44 1223 354599
URL1: <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18>
(Application Form)
Email Submission Address: karen@mrao.cam.ac.uk
Email Inquiries: a.d.challinor@mrao.cam.ac.uk

Attention: Mrs K E Scrivener, Senior Group Administrator

Research Associate in Cosmic Microwave Background Polarimetry

Ref. No: KA02

Grade: RA £19,460 - £29,127 p.a.

Limit of tenure: three years

We are seeking a postdoctoral researcher to join the CLOVER project in the Astrophysics Group of the Department of Physics, University of Cambridge. CLOVER is a world-leading cosmology experiment, currently under design and construction at Cambridge, Cardiff and Oxford Universities, designed to characterise the polarization of the CMB on large and intermediate angular scales. The post holder would be expected to work primarily on the development of algorithms and their software implementation for the calibration and cleaning of the time-series data from CLOVER, and the reconstruction of polarization maps. Active participation in other CLOVER science/analysis, such as survey design and foreground removal, will also be strongly encouraged. This post is an exciting opportunity for a talented individual to be involved in a cutting-edge CMB polarimetry experiment from an early stage.

A PhD (or equivalent) in a relevant scientific discipline is required for this post, although candidates who are about to submit or have recently submitted their doctoral thesis will be considered. Astrophysical data analysis, programming, and organisational and communication skills are essential. Familiarity with CMB astronomy and/or polarimetry, and experience in reducing high-volume data, would be advantageous.

The appointment will be on the RA1A scale (currently £19,460-29,127 per annum) at a level determined by skills and experience. The position is available immediately and we expect the post holder to start on or before 1st October, 2005. The appointment will be for a period of three years.

Further information may be obtained from: Mrs Karen Scrivener, Astrophysics Group, Cavendish Laboratory, Madingley Road, Cambridge CB3 0HE, tel: +44-1223 337294 (karen@mrao.cam.ac.uk). Applications should contain a full CV and list of publications, together with the names and contact details of two referees and a completed copy of the PD18

form available from <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18/>. Applications should be sent to the address above so as to reach her no later than 30 April 2005.

Informal enquiries about the work may be addressed to Anthony Challinor (a.d.challinor@mrao.cam.ac.uk).

No. 21692

**Visiting Assistant Professor - Physics and/or Astronomy
WESTERN KENTUCKY UNIVERSITY
TCCW 226, Physics & Astronomy
1 Big Red Way
Bowling Green, KY 42101
USA
Tel: 270-745-4357**

Attention: Dr. Doug Harper, Search Committee Chairman

Western Kentucky University

Visiting Assistant Professor

The Physics and Astronomy Department invites applications for a temporary visiting assistant professorship to begin August 15, 2005. We seek a person with a strong commitment to teaching undergraduate physics and/or astronomy courses and laboratories. A Ph.D. degree in physics or a related field is required and teaching experience is preferred. Review of all applications will begin April 4 with applications being accepted until the position is filled. Application instructions may be found at <http://physics.wku.edu/>. Inquiries about the position should be forwarded to Doug Harper, Search Committee Chairman, at doug.harper@wku.edu. Western Kentucky University is an equal opportunity/affirmative action employer.

No. 21693

**IT Specialist (Data Specialist)
SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden St. MS-17
Cambridge, MA 02138
USA
Tel:
Email Submission Address: saoresumes@cfa.harvard.edu**

Attention: Human Resource

IT Specialist (Data Specialist) IS-2210, Grades 7, 9; \$42,182 to \$64,643/yr

The employee in this position will provide computer-related support of x-ray astronomy research and Chandra X-ray Observatory operations. The Data Specialist will be involved in analyzing spacecraft and other operational data to characterize on-orbit performance, investigating anomalies, and providing support of ground data processing; participating in the daily operations of Chandra, including review of command load products; coding, modifying,

debugging, and documenting analysis and operation software using primarily Perl and IDL; and preparing reports and communicating results to the internal Chandra community.

REQUIREMENTS: BS/MS or comparable experience in Computer Science, Astronomy, Physics or related field Experience in data analysis and/or software development Ability to perform, with responsibility and good judgment, technically complete work needed for space observatory operations Good communication and interpersonal skills Experience with Unix strongly preferred Knowledge of scripting languages, Perl, and IDL Willingness to support occasional off-hour/weekend responsibilities

Candidate must be U.S. Citizen or permanent resident. Selection may be made at the Grade 7 or 9 levels this is a career ladder opportunity with promotion potential to Grade 11. Employee may be non-competitively promoted to the next higher grade, up to Grade 11, upon the recommendation of his/her supervisor, based on the position classification as well as his/her qualifications and satisfactory performance.

Applicants who have experience in a research environment are encouraged to augment their resumes by elaborating on their software and research experience by 1) briefly relating research projects and their objectives, and 2) describing how specific software was applied to the scientific research being conducted.

To view the complete vacancy announcement for this position, please go to: <http://cfa-www.harvard.edu/cfa/hr/postings/25-38.htm>

Qualified applicants should send resumes to: Recruiter #229, Job #25-38 Smithsonian Astrophysical Observatory 60 Garden St. MS-17 Cambridge, MA 02138 or via e-mail to: saoresumes@cfa.harvard.edu (email is for submission of application materials only)

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

No. 21694

Postdoctoral Fellowship

MCDONALD OBSERVATORY

The University of Texas at Austin

1 University Station C1402

Austin, Texas 78712-0259

USA

Tel: 512/471-3300

FAX: 512/471-1635

URL1: <http://www.utexas.edu/mcdonald/mcdonald.html>

URL2: <http://www.as.utexas.edu/mcdonald/jobs.jobs.html>

Email Submission Address: [hard copy applications preferred](#)

Email Inquiries: director@astro.as.utexas.edu

Attention: David L. Lambert, Director

Applications are invited for a position as a postdoctoral fellow at the W.J. McDonald Observatory, The University of Texas at Austin, to work with David L. Lambert on spectroscopic determinations of the chemical composition of stars.

Candidates are expected to hold a Ph.D., granted no earlier than 2003, at the time of appointment.

Prior experience in abundance analysis is highly desirable. The position is offered for an initial period of one year, with an extension subject to performance. The position is available starting June 1, 2005.

Interested candidates should send a curriculum vitae, list of publications and statement of research interests to Dr. David L. Lambert at the above address, and should arrange to have letters of recommendation sent by three professional scientists familiar with the candidate's research. The closing date for applications will be May 1, 2005. EOE/AEE.

No. 21695
Solar Astronomer-AURA/National Solar Observatory

PO Box 26732
Tucson, AZ 85726-6732
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/NSO

SOLAR ASTRONOMER NATIONAL SOLAR OBSERVATORY TUCSON, ARIZONA

The National Solar Observatory (NSO) invites applications for a tenure-track or tenured appointment on its scientific staff at its site in Tucson, Arizona, with offices co-located with the National Optical Astronomy Observatory (NOAO) on the University of Arizona campus. The level of the appointment will depend on qualifications of the candidate. NSO also has offices in Sunspot, New Mexico, at the site of the solar facilities on Sacramento Peak. In addition, NSO is collaborating with the University of Arizona under the auspices of an NSF-funded initiative to establish a new program in solar physics in the Department of Planetary Sciences/Lunar and Planetary Laboratory.

The NSO operates forefront facilities for ground-based observational research by the scientific community on Kitt Peak, Arizona, Sacramento Peak, New Mexico, and at six GONG sites around the world. The Kitt Peak site features the 1.5-m McMath-Pierce Solar Telescope Facility, which is the world's largest all-reflecting, unobstructed astronomical telescope that is used primarily for infrared and high photon flux research. NSO is in the process of completing deployment of the new SOLIS (Synoptic Optical Long-term Investigations of the Sun) suite of instruments on Kitt Peak. The primary instrument of SOLIS is the Vector Spectromagnetograph (VSM), which is producing full-disk magnetograms of the Sun at unprecedented sensitivities. The other SOLIS instruments include the Full Disk Patrol (FDP) camera and the Integrated Sunlight Spectrometer (ISS). On Sacramento Peak, NSO operates the 76-cm R. B. Dunn Solar Telescope with an adaptive optics system that provides state-of-the-art imaging of the Sun. A 40-cm coronagraph and other facilities are located there. The worldwide Global Oscillation Network Group (GONG) is carrying out forefront investigations in

both local and global helioseismology, and now continuous high-sensitivity magnetograms. NSO has a leadership role in the design, construction and operation of the next-generation, 4-m class Advanced Technology Solar Telescope (ATST). The ATST will be an innovative, forefront facility with unprecedented capabilities for observational study of the Sun in the optical and infrared at the highest resolutions in the spatial, temporal and spectral domains. Detailed information about NSO facilities and projects is available at www.nso.edu.

The NSO is especially interested in candidates with a background and interest in polarimetry and instrumentation. The successful candidate will participate in the development of ATST polarimetric capabilities as well as pursue a vigorous program of research and support of related scientific programs at the McMath-Pierce Solar Telescope Facility. NSO is in the process of commissioning a new Aladdin 1024 x 1024 four-quadrant indium-antimonide detector and camera system. This new instrument, combined with the current AO system, will yield high spatial resolution observations for the conduct of forefront research in infrared solar physics. The new staff member will thus have the opportunity to foster collaborations with users of the facility to ensure high scientific utilization of this frontier instrumentation for infrared solar research. While our preference is for candidates in observational solar physics that also have an interest in instrumentation, excellent candidates in all fields of observational, theoretical and computational solar physics, as well as instrument development will be considered.

Applicants must have a PhD in astrophysics or a related field. A demonstrated record of innovative research, preferably in solar physics, is a requirement. A brief research plan should accompany an application, as well as vitae and the names of at least three references willing to provide letters of recommendation. Review of applications will begin April 29, 2005, and will continue until the position is filled.

To apply, send a letter of application with CV and the names and addresses of three professional references preferably via email (hrnoao@noao.edu), or mail to the address below. Human Resources Manager NOAO/NSO ATTN: NSO Solar Astronomer Job No. 712 P. O. Box 26732 Tucson, AZ 85726

NOAO and NSO are affirmative action and equal employment opportunity employers. Preference granted to qualified Native Americans living on or near the Tohono O'odham reservation.

NOAO and NSO foster a diverse research environment. Women and candidates from under represented minorities are particularly encouraged to apply.

No. 21696
North American ALMA Antenna IPT Lead
NATIONAL RADIO ASTRONOMY OBSERVATORY
520 Edgemont Road
Charlottesville, VA 22903
USA
Tel:
URL1: <http://www.nrao.edu>
(Home page)
Email Submission Address: resumes@nrao.edu

Attention: Human Resources

The Atacama Large Millimeter Array (ALMA) is an international astronomy facility. ALMA is an equal partnership between Europe and North America, in cooperation with the Republic of Chile. It is funded in North America by the U.S. National Science Foundation (NSF) in cooperation with the National Research Council of Canada (NRC), and in Europe by the European Southern Observatory (ESO) and Spain. ALMA construction and operations are led on behalf of North America by the National Radio Astronomy Observatory (NRAO), which is managed by Associated Universities, Inc. (AUI) and on behalf of Europe by ESO. The above-mentioned parties/partners created the Joint ALMA Office (JAO), which is responsible for the overall leadership and management of construction, commissioning, and operation of the ALMA Observatory. In addition the National Astronomical Observatory of Japan (NAOJ) will contribute additional antennas and receivers to the project. The NA Antenna IPT leader will lead the US portion of the ALMA Antenna Integrated Product Team and, together with the European counterpart, manage all ALMA antenna activities. The NA Antenna IPT leader will be responsible for all aspects of the procurement and acceptance of the US supplied antennas. This includes technical monitoring of contractor activities, planning for acceptance tests at the Operations Support Facility in Chile and supporting assembly, integration and verification activities. The NA Antenna IPT leader reports directly to the North American ALMA Project Manager. This will be a very significant role; the technical specifications of the ALMA antennas are extremely demanding and the Antenna contract will be the most expensive contract ever placed by the NRAO.

We require at least a BS and at least five years post graduate experience in structural, mechanical engineering, applied mechanics, or related field. An MS or several years experience in the design of telescopes is preferred. Significant experience of following a major industrial procurement is essential. Experience in the successful design and testing of precision positioning mechanisms and mechanical instrumentation is a plus. Practical experience with the design of steel and/or composite material structures is desired. Experience with CAD software is advantageous. Experience with the finite element technique and commercial ANSYS and/or NASTRAN software package is helpful. The ability to travel frequently and on short notice is a must. Extensive missions to northern Chile, to Europe and to other telescope sites will be integral part of the job. The ability to work on large structures at heights above the ground is required. Good health and the ability to work at up to 5000 m altitude are required.

The selected candidate must be able to interact orally and in writing, be able to write contractual documents like specifications, statements of work, having a working knowledge of QA and Configuration control methodologies. The candidate must be able to adapt in an international environment. The position is located at our headquarters in Charlottesville, Virginia.

No. 21697
Lecturer in Astrophysics
UNIVERSITY OF SHEFFIELD
Firth Court
Western Bank
Sheffield, S. Yorkshire S10 2TN
UK

Tel: +44-(0)114 222 1636

FAX: +44-(0)114 222 1624

URL1: <http://www.sheffield.ac.uk/jobs>

(Further details and application form)

URL2: <http://www.sheffield.ac.uk/physics/research/astro/>

(Research Group home page)

URL3: <http://www.sheffield.ac.uk/physics/>

(Departmental home page)

Email Inquiries: C.Tadhunter@sheffield.ac.uk

Attention: Staff Recruitment Service (Ref R3618), Department of Human Resources

The University of Sheffield is seeking to appoint a new lecturer (equivalent to assistant professor in U.S.) to carry out a programme of world-class research in the astrophysics group, which currently comprises 5 academic members of staff, and has continued a steady expansion in recent years, currently totaling 17 personnel. To date, the emphasis of the group has been observational, receiving substantial ground-based (ESO, Gemini, WHT) and space-based (HST, Spitzer) allocations. The group holds a number of PPARC and Royal Society grants which support its research activities, computing infrastructure and an active visitor programme.

Candidates should have research interests which overlap with those of the existing group (stellar astrophysics, starbursts, active galaxies, galaxy evolution, planetary physics, high time resolution astrophysics). Applications from candidates with a background in theory, including numerical simulations, are particularly welcome. Applicants should possess a PhD or equivalent in astrophysics or a related discipline, and a minimum of 3 years post-doctoral experience.

The post is tenable from 1 September 2005. The successful applicant is expected to contribute to the teaching within the department and undertake administrative duties. Applications may be made online at the above URL, or by sending a full CV, together with a covering letter explaining your suitability for the vacancy (3 copies of each), and the names of three referees, quoting reference R3618.

No. 21698

Solar Physics Reserach

THE JOHNS HOPKINS UNIVERSTIY APPLIED PHYSICS LABORATORY

11100 Johns Hopkins Road

Laurel, MD 20723

US

Tel: 443-778-0564

FAX: 443-778-0112

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

Email Submission Address: bruce.wright@jhuapl.edu

Attention: Bruce Wright, Human Resources Representative

The successful applicant will participate in the design, construction, flight operation and data

analysis in the Solar Bolometric Imager (SBI) and other programs of the Solar Physics Section. SBI is an innovative solar telescope that directly images the sunspot, facular, magnetic network and yet-to-be-discovered contributions to the variance in solar irradiance. A balloon-borne version of SBI will be launched in Antarctica in 2007. Details can be found at our web site: <http://sd-www.jhuapl.edu/SBI/>. The position will require an understanding of basic sensor and optics concepts. The applicant should be familiar with IDL and preferably also another language such as C, C++, Java, and/or Fortran. Applicants should be able to demonstrate skills in experiment design and test and in data analysis. A background in observational astronomy or solar physics would be a strong addition to the qualifications for this position. Oral and written communication skills are important factors in determining a candidate's suitability.

Applicants should hold a Ph.D. in Physics or a related field by the appointment date or have an equivalent combination of demonstrated experience and education. The positions will be at the level of Post-Doctoral Fellow or Senior Staff, depending on experience and qualifications. Post-Doctoral candidates are particularly sought.

Interested candidates should send a curriculum vitae that contains a publication list, a letter discussing their qualifications, research interests, and goals, and the names of three professional references to Bruce Wright, The Johns Hopkins University Applied Physics Laboratory, 11100 Johns Hopkins Road, Laurel, MD 20723-6099; FAX: 240-228-6810; Email: recruiter17@jhuapl.edu. Inquiries regarding this position should be directed to David M. Rust, telephone 240-228-5414, Fax: 240-228-0386 or Email: dave.rust@jhuapl.edu. U.S. Citizen preferred. The Johns Hopkins University Applied Physics Laboratory is an equal opportunity affirmative action employer.

No. 21699

Postdoctoral Research Position in Astrophysics
UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
1000 Hilltop Circle
Baltimore, Maryland 21250
USA
Tel: 410-455-1978
FAX: 410-455-1072
Email Inquiries: [NONE](#)

Attention: Jane Turner, Dr.

Applications are invited for a postdoctoral research associate position in astrophysics at UMBC. The candidate should have experience in the study of AGN and also in X-ray astronomy. The research will involve analysis of new and archival data from Chandra and XMM-Newton, and incorporate spectral and spatial studies of low-redshift AGN.

The position would begin in October 2005 and is a 1-year appointment. Applicants should hold a PhD in astronomy and/or astrophysics, and should submit a curriculum vitae, a publication list, a brief description of research interests and give the names of three references. Applications received before May 2, 2005 will be given full consideration.

UMBC is an Affirmative Action/Equal Opportunity Employer.

No. 21700
Adjunct Assistant Professor - Physics (Astronomy)
COLLEGE OF SAINT BENEDICT/SAINT JOHN'S UNIVERSITY
PO Box 7188
Collegeville, MN 56321
United States
Tel: 320-363-3128
FAX: 320-363-2115
URL1: <http://www.csbsju.edu>
(Home Page)
URL2: <http://www.csbsju.edu/physics/>
(Physics Department Home Page)
URL3: <http://www.csbsju.edu/humanresources>
(Human Resources Home Page)
Email Submission Address: mergen@csbsju.edu

Attention: Marlene Ergen, Human Resources Coordinator

The College of Saint Benedict and Saint John's University invite applications for a one-year term, Adjunct Assistant Professor position to teach non-major Astronomy courses in the Department of Physics for academic year 2005-2006. Ph.D in astronomy preferred. Candidates should be committed to excellence in undergraduate teaching and be able to teach a range of undergraduate astronomy/physics courses and night labs.

The College of Saint Benedict, a liberal arts college for women, and Saint John's University, a liberal arts college for men, are located four miles apart in Central Minnesota just outside metropolitan St. Cloud and 70 miles from Minneapolis. Both are Catholic colleges in the Benedictine tradition, which emphasize quality teaching and a commitment to intercultural learning.

Submit cover letter, curriculum vitae, three recent letters of recommendation, statement of teaching philosophy, and copies of transcripts (official transcripts required for interview).

Review of applications will begin immediately and continue until filled.

Women and people of diverse racial ethnic and cultural backgrounds are encouraged to apply. The College of Saint Benedict/Saint John's University are EOE/AA employers.

No. 21701
Postdoctoral position in extragalactic astrophysics
ASTROPHYSIKALISCHES INSTITUT POTSDAM
An der Sternwarte 16
Germany
Tel: +49-(0)30-7499532
FAX: +49-(0)30-7499429
URL1: <http://www.aip.de>
(AIP home page)
Email Submission Address: lwisotzki@aip.de
Email Inquiries: lwisotzki@aip.de

Attention: Lutz Wisotzki, Dr

A postdoctoral research position in extragalactic astrophysics is offered at the Astrophysikalisches Institut Potsdam (AIP). The main task will be to participate in the analysis and interpretation of imaging data of quasar host galaxies obtained with the Hubble Space Telescope. The position is funded by DLR/BMBF and can be filled starting October 2005, under some circumstances even as early as July 2005. An appointment will be made for two years, with a possible extension by a third year depending upon approval of additional funding. The candidate is expected to pursue a vigorous research programme and ideally should have a PhD awarded in recent years. For further information, please contact Dr. Lutz Wisotzki.

The AIP is located in the beautiful Potsdam/Babelsberg area, close to the southwestern border of Berlin. About 70 scientists work on a variety of astrophysical topics. The AIP is partner of the LBT project and has access to the ESO VLT. It features excellent computer facilities and has access to supercomputers. Potsdam furthermore hosts the Albert-Einstein Institut for Gravitational Physics, the Astronomy Department of Potsdam University and several other research institutions.

Applications should include a curriculum vitae, list of publications, and a brief statement of research background and future interests. Deadline is May 1st 2005 although later applications may still be considered until the post is filled. Applicants should arrange for two letters of recommendation to be sent by the same date. The AIP is an equal opportunity employer and particularly encourages applications from women.

No. 21702**Post-doctoral Researcher in Galaxy Evolution****UNIVERSITY OF OXFORD****Denys Wilkinson Building****Keble Road****U.K.****Tel: 44 1865 273303****FAX: 44 1865 273390****URL1: <http://www-astro.physics.ox.ac.uk/jobs.html>****(Astrophysics - Jobs)****Email Submission Address: sec@astro.ox.ac.uk****Email Inquiries: yi@astro.ox.ac.uk****Attention: Fiona Bywater, Miss**

UNIVERSITY OF OXFORD Astrophysics

Post-doctoral Researcher in Galaxy Evolution (DB05001)

The Department of Physics wishes to make a post-doctoral appointment for up to three years to work in the area of galaxy evolution mainly with the team of Dr Sukyoung Yi commencing in October 2005. The team's main interest is early-type galaxy evolution and involves construction of models using population synthesis, galactic chemical evolution, semi-analytic galaxy formation, and hydrodynamic simulations with comparison to observational data

(GALEX, SDSS, 2dF, MUSYC). Both theorists and observers are welcome to apply.

The team is part of the PPARC-supported theoretical cosmology group which includes Joseph Silk, Andrew Benson, Pedro Ferreira, Scott Kay, and Suhyoung Yi, and covers large-scale structure and galaxy formation, galaxy evolution, and cosmic background radiation. Collaborations with these members are highly encouraged.

The post-holder will have the opportunity to engage in teaching for up to 3 hours per week during term. The starting salary is from £19,460 - 29,128 pa depending on skills and experience. A benefits package and a research budget will be provided. Further particulars are available from <http://www-astro.physics.ox.ac.uk/jobs.html>

Applicants, should quote reference DB05001 and send a statement of research interests, curriculum vitae, list of publications, and the names and addresses of three referees. Preference will be given to applications received by the closing date of 6 May 2005. Applicants should also arrange for letters from the referees to be sent by email or to the address below by this date. Electronic applications are preferred in PDF, PS, or MS Word formats. Applications will be acknowledged but not reference letters.

Postal applications should be sent to: Miss Fiona Bywater Astrophysics University of Oxford Denys Wilkinson Building Keble Road, Oxford OX1 3RH Tel: +44 1865 273302 FAX: +44 1865 273390 URL1: <http://www-astro.physics.ox.ac.uk> Email Enquiry: yi@astro.ox.ac.uk Email Submission Address: sec@astro.ox.ac.uk

The University is an Equal Opportunity Employer

No. 21703

**Support Scientist for the European VLBI Network correlator at JIVE
JOINT INSTITUTE FOR VLBI IN EUROPE**

Postbus 2

the Netherlands

Tel: +31 521 596-500

FAX: +31 521 597-332

URL1: <http://www.jive.nl>

(*JIVE home page*)

URL2: <http://www.evlbi.org>

(*European VLBI Network home page*)

URL3: <http://www.jive.nl/institute/jobs.html>

(*more complete job description*)

Email Submission Address: personnel@astron.nl

Email Inquiries: campbell@jive.nl

Attention: Ms. D. Verweij

The Joint Institute for VLBI in Europe (JIVE) operates an advanced 16-station MkIV VLBI data processor (correlator) to support astronomical VLBI observations made with the European VLBI Network (EVN). The EVN is often used in conjunction with the MERLIN interferometer in the UK and the VLBA in the U.S. JIVE is located in Dwingeloo, the Netherlands, at the headquarters of ASTRON, which is the host institute for JIVE.

We invite applications for two JIVE Support Scientist positions becoming available in summer 2005. The appointees will be expected to spend 50% of their time on support duties and 50% on astronomical research. Support responsibilities include assisting EVN users to schedule and analyze their VLBI experiments, monitoring network performance through dedicated test observations, overseeing the correlation of experiments, and testing new network/correlator features and capabilities. The position may also involve other local-service collateral duties.

The position requires a Ph.D. in astronomy or other relevant field, and a thorough knowledge of VLBI techniques. Preference for one of the positions would be afforded to experience in spectral-line VLBI. Applicants of any nationality are eligible to apply. A good command of written and spoken English is essential.

The appointments are offered for one year in the first instance with the possibility of an extension up to a total of three years. The positions carry a competitive salary plus an excellent package of secondary benefits, including relocation expenses. Applications should include a CV and list of publications, together with three letters of reference, which may be sent separately. All application materials should arrive by 2 May 2005, mentioning ref.No. JIVE2005/01. Responses preferred by e-mail.

No. 21704

IRTF Support Astronomer

UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY

2680 Woodlawn Drive

Honolulu, HI 96822

USA

Tel: 808-956-8566

FAX: 808-946-3467

Email Inquiries: tokunaga@ifa.hawaii.edu

Attention: Dr. Rolf Kudritzki, Director

UNIVERSITY OF HAWAII INSTITUTE FOR ASTRONOMY FACULTY POSITION – IRTF SUPPORT ASTRONOMER ASSISTANT OR ASSOCIATE ASTRONOMER

The Institute for Astronomy (IfA) at the University of Hawaii invites applications for a full-time, non-tenure track, federally funded, faculty position for the NASA 3-meter Infrared Telescope Facility (IRTF). The position is annually renewable, with continuation subject to availability of funds. The successful applicant will be located in Hilo on the Island of Hawaii.

Duties: Support astronomers are part of the observatory staff and expected to carry out independent research programs in infrared astronomy, and support the IRTF and its visiting observers. The successful applicant will have access to the telescopes on Mauna Kea for his or her research.

Minimum Qualifications: Ph.D. in astronomy or physics, successful experience as an independent researcher as demonstrated by publications and letters of recommendation. Applicants must be capable of working in a team environment and communicate well with a wide variety of IRTF users. Additionally at the Assistant level: ability to interact effectively with students and/or assistants when appropriate; at the Associate level: four years experience at

the Assistant level or equivalent. Good health is required to work at 4,200 meter elevation and the applicants must possess a valid driver's license.

Desirable: Knowledge of astronomical instrumentation; experience in infrared detector technology; experience with observatory operations; knowledge of data reduction and analysis software. Salary to commensurate with qualifications and experience. To apply send curriculum vitae (including list of publications and a statement of current research interests and future research plans) to Dr. Rolf Kudritzki, Director, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822. Please reference position number 86224T. Applicants should also arrange for the names of three references to be forwarded to the same address.

Closing Date: All applications must be received at the Institute for Astronomy by May 31, 2005. Further details may be obtained from Dr. Alan Tokunaga, (808) 956-6691; email: tokunaga@ifa.hawaii.edu. EEO/AA.

No. 21705

Postdoctoral Research Associate in Asteroseismology (2 posts)

UNIVERSITY OF CENTRAL LANCASHIRE

UK

Tel: (44) (0)1772 892324

FAX: (44)(0)1772 892933

URL1: <http://www.uclan.ac.uk/jobs.htm>

(application forms 110A-01-04)

URL2: <http://www.uclan.ac.uk/pasm>

(Dept. of Physics, Astronomy and Maths)

URL3: <http://www.uclan.ac.uk>

(University of Central Lancashire)

Email Inquiries: dwkurtz@uclan.ac.uk

Attention: Human Resources

Applications are invited for two PDRA posts to undertake research in asteroseismology of roAp stars with Prof. Don Kurtz. One position is a three-year full-time position funded by PPARC, with a possibility of extension to 5 years. The other is a two-year full-time position funded by UCLan. Candidates will be considered for both positions.

The project involves high spectral resolution, high time resolution, high s/n spectra of roAp stars for 3D pulsational mode, magnetic field and abundance studies, leading to depth information on diffusive element separation, constraints on the abnormal structure of Ap star atmospheres, studies of the magnetoacoustic boundary layer of the pulsation cavity, and abundance analyses in unprecedented detail.

Candidates should have at least three years' experience in stellar astrophysics, and should hold a BSc and PhD (awarded or imminent) in an appropriate subject. Experience in high-resolution spectroscopy and familiarity with IRAF and/or MIDAS are highly desirable. Previous involvement with stellar pulsation, magnetic fields, and abundance analysis is an advantage.

Appointment will be on the RA scale, with starting salary likely to be in the range 21,640 – 22,507 UK Pounds.

An application form and further details are available at: www.uclan.ac.uk/jobs.htm (REFERENCE 110A-01-04) Alternatively, for an application package phone Human Resources (Personnel) during office hours on (0)1772-892324, or fax on (0)1772-892933. Quote the reference number.

For further information, contact Prof. Don Kurtz: dwkurtz@uclan.ac.uk; phone (44) (0)1772-893735; fax (44) (0)1772-892996.

CLOSING DATE 2005 May 1.

Interviews will be held on 2005 May 24.

No. 21706
Postdoctoral Position in Astrophysics
SCIENCE INSTITUTE, UNIVERSITY OF ICELAND
Tel:
Email Submission Address: gulli@raunvis.hi.is
Email Inquiries: gulli@raunvis.hi.is

Attention: Gunnlaugur Bjornsson

The Science Institute, University of Iceland, has an opening for a postdoctoral fellow to pursue theoretical research into the use of gamma-ray bursts in cosmology. The candidate will join the research group of Gunnlaugur Bjornsson and Einar H. Gudmundsson. We are in close collaboration with the Cosmology group of the Niels Bohr Institute at the University of Copenhagen, Denmark, and are affiliated with the European research network "Gamma Ray Bursts -- an enigma and a tool", with nodes throughout Europe.

For further information about the Institute and the University of Iceland, see www.raunvis.hi.is and www.hi.is For inquiries contact gulli@raunvis.hi.is or einar@raunvis.hi.is

For full consideration, applications should be received by 6 May 2005. Applicants should provide a CV and a list of publications, along with a brief (1-3 pages) description of research interests. They should also arrange for two letters of recommendation to be sent separately.

The postdoctoral fellowship is for 2 years with the possibility of extension depending on available funding. A PhD degree and relevant research experience are required.

No. 21708
Astronomical Software Scientist
PRINCETON UNIVERSITY
Dept. of Astrophysical Sciences
Ivy Lane, Peyton Hall
Princeton, NJ 08544
USA
Tel:
FAX: 609-258-1020
URL1: <http://www.astro.princeton.edu>
(Department homepage)

URL2: <http://www.sdss.org>
(SDSS)

Email Inquiries: gk@astro.princeton.edu

Attention: *Jill Knapp, Professor*

The Department of Astrophysical Sciences, Princeton University, expects to have one or more positions in the area of software development and support for the acquisition, reduction, analysis, and testing of photometric and spectroscopic data obtained by the Sloan Digital Sky Survey, a multi-institution project to carry out an imaging and redshift survey, and other possible current and future large astronomical instrumentation projects. SDSS measures the sky at five bands, u,g,r,i, and z, using a large format CCD array, and spectra are obtained by a pair of multi-fiber spectrographs. The data reduction is done by a series of automated pipelines which calibrate and correct the data, find and measure objects, and produce digital catalogues, images and spectra for science analysis. We expect to carry out development, testing and support work in the following areas: running the pipelines; efficient algorithms for object measurement; quality analysis; co-addition of multiple imaging data; comparison and subtraction of images from multiple passes across the sky; automated searches for variable objects; algorithms to find rapidly varying or fast moving objects; global photometric calibration; spectrophotometry; and determination of stellar parameters (temperature, metallicity, spectral type, gravity, and radial velocity). Much of this work will be in support of SDSS-II, whose science goals include the studies of large scale cosmological structure, the kinematic and chemical structure and merger history of the Milky Way galaxy, and the characterization of supernova light curves in the range $z = 0.05 - 0.35$.

We seek persons with knowledge of optical astronomy at faint levels, CCD data, handling of large data sets, efficient automated data reduction, image analysis, and stellar spectroscopic analysis. The work includes algorithm development; evaluating the scientific performance of pipeline code; writing robust, efficient code (primarily on Unix platforms in C); and running and maintaining pipeline code. Experience in TCL, C++ and software engineering practices and/or in instrumentation and optical telescope hardware and software is desirable. The appointment (s) will be made to the scientific or technical staff at a level and salary commensurate with experience, for an initial period of one year which can be renewed for one or more years depending on satisfactory performance and availability of funding. The candidate should hold a Ph.D. degree in (preferably) astrophysics, physics, mathematics or computer science.

Please send Vita, list of publications, detailed description of relevant experience, and arrange for three letters of recommendation to be sent to the above address. We will begin to evaluate applications on June 1, 2005 and will accept them thereafter until suitable candidates are found. These positions are offered subject to the availability of funding. Further information about the SDSS is available via <http://www.sdss.org> or by email from gk@astro.princeton.edu. For information about applying to Princeton, please link to: <http://web.princeton.edu/sites/dof/ApplicantsInfo.htm>. EEO/AEE

No. 21715
Astrophysics
UNIVERSITY OF MANCHESTER
Sackville Street Building
UK

Tel: +44 (0) 161 275 8837

FAX: +44 (0) 161 306 4037

URL1: <http://www.manchester.ac.uk/vacancies>

Email Submission Address: eps-hr@manchester.ac.uk

Email Inquiries: Gary.Fuller@manchester.ac.uk

Attention: EPS HR Office

SCHOOL OF PHYSICS AND ASTRONOMY Two Postdoctoral Research Associates REF
EPS/077/05 Astrophysics Group £19,460 - £29,128 p.a

The Astrophysics Group at the University of Manchester announces the availability of two PPARC funded postdoctoral research positions in the areas of i) evolved stars, and ii) star formation. The Astrophysics Group is based on the central Manchester campus of the University and has research interests in all branches of molecular astrophysics (<http://jupiter.phy.umist.ac.uk/>). The research in evolved stars is focussed on AGB and post-AGB evolution, dust, and planetary nebula formation and evolution. The successful applicant will work with Prof. A. Zijlstra on studies of AGB mass loss at low metallicity, including an on-going Spitzer survey of the Magellanic Clouds. Experience in infrared astronomy will be an advantage, but applicants with expertise in all areas of late stages of stellar evolution are encouraged to apply. The star formation research in the group is focused on the study of both low and high mass young stars, star forming cores and circumstellar disks. The successful applicant for the star formation position will work with Dr. G. Fuller on the observational study and modelling of high mass star formation. Experience with submillimetre and infrared astronomy and interferometry will be an advantage, however applicants with experience in all areas of star formation studies are encouraged to apply.

Informal enquires should be directed to Prof. A. Zijlstra (Albert.Zijlstra@manchester.ac.uk , +44-(0)161 306-3925) or Dr. G. Fuller (Gary.Fuller@manchester.ac.uk +44-(0)161-306-3653). Both positions are for an initial 3 year period starting 1 Oct 2005.

No. 21716

Postdoctoral Position: Multi-Wavelength Studies (HI/IR) of Nearby Galaxies (04-05)

MAX-PLANCK INSTITUTE FOR ASTRONOMY

Koenigstuhl 17

Germany

Tel: +49-6221-528-225

FAX: +49-6221-528-339

URL1: <http://www.mpia.de>

(Institute homepage)

URL2: <http://www.mpia.de/GALAXIES/NEU>

(Department Galaxies and Cosmology)

Email Submission Address: walter@mpia.de

Email Inquiries: walter@mpia.de

Attention: Ms. Susanne Koltes-Al-Zoubi (reference no. 04-05)

The Max-Planck Institute for Astronomy (MPIA) in Heidelberg, Germany, is seeking ambitious

candidates to fill one postdoctoral research position in an extragalactic research group at MPIA.

The successful candidate will work with data from 'The HI Nearby Galaxy Survey (THINGS)', a large VLA survey of nearby galaxies in the 21cm line of neutral hydrogen (PI: Dr. F. Walter). Group members will also have access to data from the Spitzer SINGS legacy project (the Spitzer Infrared Nearby Galaxy Survey, PI: Dr. R. Kennicutt). We invite applications from candidates with expertise and/or interest in multi-wavelength studies of the interstellar medium and related processes in nearby galaxies. Experience in radio interferometric observations and/or infrared observations would be an asset, though not a requirement.

Observational researchers at the MPIA make extensive use of facilities ranging from optical through radio telescopes. In addition to the surveys mentioned above, appointees will have full access to all the facilities available to astronomers in the Max-Planck-Society, including the Very Large Telescope (VLT), the Large Binocular Telescope (LBT), the IRAM millimeter telescopes (PdBI, 30m), the Atacama Pathfinder Experiment (APEX), and the optical telescopes operated by the MPIA on Calar Alto.

The appointments will be for an initial period of two years, starting in fall 2005, with possible extensions to 3 years. The positions include funds for publications, visitor support, and travel.

Applicants should have a PhD in astronomy or a related field. Interested candidates should send a curriculum vitae, a brief summary of past and current research and a brief outline of future plans, to the address above. Three letters of recommendation should be requested by the applicant and sent directly to the above address. The deadline for all materials is 1 May 2005; late applications will be considered until the position is filled. For further information, please contact Dr. Fabian Walter (walter@mpia.de).

The Max Planck Society is an equal opportunity employer. Applications from women and historically under-represented groups are particularly welcome.

No. 21717

Tenure-track position in theoretical cosmology

ABDUS SALAM INTERNATIONAL CENTER FOR THEORETICAL PHYSICS

Strada Costiera 11

Italy

Tel: +39-040-2240303

FAX: +39-040-2240304

Email Submission Address: bencich@ictp.it

Email Inquiries: bencich@ictp.it

Attention: Sue Bencich

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, invites applications for a Tenure-Track research faculty appointment. The initial appointment is for 5 years and the candidate may be promoted to a permanent professional staff position pending a successful outcome of a competitive review. We are primarily interested in candidates working in the area of theoretical cosmology. The position will complement existing research programme in cosmology and particle physics at the ICTP. In addition to establishing a

vigorous research programme, the successful candidate is expected to assist in the planning and implementation of scientific activities of the Centre, and to teach at the Diploma programme. The candidate is also expected to organize educational and training activities, should have an engaging interest in science in developing countries, and must possess a positive attitude towards the multicultural and international character of the principles at the Centre.

Applicants should have a PhD or equivalent degree and at least two years postdoctoral research experience. Applicants should submit a CV, publication list, and a statement of research interests, and should arrange to have at least three letters of recommendation sent to:

Susan Bencich High Energy, Cosmology & Astroparticle Physics Section Abdus Salam International Centre for Theoretical Physics Strada Costiera 11, Trieste, Italy Tel: +39-040-2240303. Fax: +39-040-2240304. E-mail: bencich@ictp.it

Applications are accepted until the end of April 2005 or until the position is filled. We strongly encourage applications from qualified female candidates and candidates from developing countries.

No. 21718

Postdoctoral Researcher: X-ray and Optical Studies of Neutron Stars

PENN STATE UNIVERSITY

Dept. of Astronomy & Astrophysics

525 Davey Lab.

University Park, PA 16802

USA

Tel: 814 865 9482

FAX: 814 863 2842

URL1: <http://www.astro.psu.edu>

Email Submission Address: pavlov@astro.psu.edu

Email Inquiries: pavlov@astro.psu.edu

Attention: Dr. George Pavlov, Senior Scientist

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

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

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

No. 21719**Tenure-Track Position in Computational Solar Physics****CATHOLIC UNIVERSITY OF AMERICA****620 Michigan Avenue, NE****Washington, DC 20064****USA****Tel: 202-319-5315****FAX: 202-319-4448****URL1: <http://iacs.cua.edu>****(Institute web-site)****URL2: <http://physics.cua.edu>****(Physics Web-site)****Email Submission Address: montrose@cua.edu****Email Inquiries: bruhweiler@cua.edu*****Attention: Prof. Charles Montrose, Chair, Dept of Physics***

The Department of Physics at the Catholic University of America (CUA) wishes to fill a tenure-track faculty position in the area of computational Solar Physics starting Fall 2005. Applicants both at the junior and more senior level are welcome. The successful candidate should have a well-developed research program and interact with both the research and regular faculty at CUA. The Catholic University of America has active research programs in general Astrophysics and Solar Physics. CUA is conveniently located in Washington DC, and has longstanding working relationships with NASA/Goddard Space Flight Center, the E.O. Hulbert Naval Research Laboratory, as well as other nearby government institutions and universities. The successful applicant is expected to make use of our current research and academic activities, both inside and outside the Department of Physics, to develop a competitive graduate Masters and PhD Solar Physics concentration within the Dept. of Physics.

Applicants should submit their curriculum vitae, bibliography, a brief description of research, and how they will utilize the resources described above in building a successful competitive graduate program to Dr. Charles Montrose, Chair, Department of Physics, The Catholic University of America, 620 Michigan Ave., NE, Washington, DC 20064, USA. Applicants should arrange for at least 3 letters of recommendations to be sent. Prior to submission, applicants are urged to contact Prof. Frederick Bruhweiler, Director of the Institute for Astrophysics & Computational Sciences (IACS) and Chair of the Solar Physics Faculty Search committee (bruhweiler@cua.edu). Applicants that are complete by May 1 will be assured full consideration.

The Catholic University of America was founded in the name of the Catholic Church as a national university and center of research and scholarship. Regardless of their religious affiliation, all faculties are expected to respect and support the University's mission. The Catholic University of America is an Affirmative Action, Equal Opportunity Employer.

No. 21720**Professorship in Astronomy**

DUBLIN INSTITUTE FOR ADVANCED STUDIES**10 Burlington Road****Ireland****Tel:****URL1: <http://www.dias.ie>****(Institute's webpage)****Email Submission Address: registraroffice@admin.dias.ie****Email Inquiries: ejam@dunsink.dias.ie*****Attention: Registrar***

The School of Cosmic Physics of the Dublin Institute for Advanced Studies invites applications for the post of Professor in Astronomy. Applicants should have a strong record of original research complementing and enhancing our existing strengths in active galactic nuclei, advanced evolution of massive stars, computational astrophysics, data mining, evolution of extragalactic systems, high-energy astrophysics and star formation. Candidates should have an observational background but more theoretical interests that support the observational efforts may be considered as well.

Further details about this post can be found at www.dias.ie.

Applications, including CV, Publication List, a brief Research Plan and the names of 3 referees should be sent by the 30th of June 2005 to registraroffice@admin.dias.ie (quoting the reference number SPC0501 in the subject line) or by post to The Registrar's Office, Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland (quoting the reference number SPC0501).

No. 21721**Postdoctoral Research Fellows in Astronomy****UNIVERSITY OF NOTTINGHAM****The School of Physics & Astronomy****University Park, Nottingham NG7 2RD****England****Tel: 01159515183****FAX: 01159515180****URL1: <http://www.nottingham.ac.uk/physics/research/astronomy>****(Nottingham Astronomy Group)****URL2: <http://www.nottingham.ac.uk/physics>****(School of Physics & Astronomy)****URL3: <http://www.nottingham.ac.uk>****(University of Nottingham)****Email Submission Address: melanie.stretton@nottingham.ac.uk****Email Inquiries: michael.merrifield@nottingham.ac.uk*****Attention: Melanie Stretton, Mrs.***

School of Physics & Astronomy

Postdoctoral Research Fellows in Astronomy

Applications are invited for the above posts, which are funded under a new rolling grant from PPARC that supports the research of the Astronomy Group in the School of Physics and Astronomy. The Group's research spans the range of extragalactic structure formation from individual galaxies to large scale structure in the Universe, drawing on the observational, theoretical and numerical expertise of its members. Particular interests include the dynamics of nearby galaxies, the morphology and dynamics of galaxies at intermediate and high redshifts, hydrodynamical simulations of structure formation, the observational study of large scale structure, and analysis of the cosmic microwave background. Further details are available at: <http://www.nottingham.ac.uk/physics/research/astronomy> .

Candidates whose interests fall in any of these areas, or whose work complements these activities, are encouraged to apply. A relevant PhD is essential.

Salary will be within the range £19,460 - £29,128 per annum, depending on qualifications and experience. These posts are available from 1 October 2005 or as soon as possible thereafter and will be offered on a fixed-term contract for a period of three years.

Informal enquiries may be addressed to Professor M Merrifield, Email: Michael.Merrifield@Nottingham.ac.uk or Professor P Coles, Email: Peter.Coles@Nottingham.ac.uk .

Candidates should send a detailed CV, a brief description of their research interests, and the names and addresses of two referees, to Melanie Stretton, School of Physics and Astronomy, The University of Nottingham, University Park, Nottingham, NG7 2RD, UK. Tel: +44 (0)115 951 5183. Fax: +44 (0)115 951 5180. Email: Melanie.Stretton@Nottingham.ac.uk . Closing date: 1 June 2005.

No. 21722

Assistant Professor, Observational or Theoretical Solar Physics, Department of Planetary Sciences

UNIVERSITY OF ARIZONA

1629 E. University Blvd.

c/o Joan Weinberg

Tucson, AZ 85721

US

Tel: 520-621-6962

FAX: 520-626-2868

URL1: <http://www.lpl.arizona.edu>

(Lunar and Planetary Laboratory website)

URL2: <http://www.nso.edu>

(National Solar Observatory website)

URL3:

Attention: Michael J. Drake, Professor, Head and Director

The Department of Planetary Sciences and the Lunar and Planetary Laboratory expects to fill a tenure track faculty position in the area of observational or theoretical solar physics, broadly

defined, probably at the level of untenured Assistant Professor. The position is initially funded by the National Science Foundation for 5 years, with the University committed to paying the academic-year salary after that time if progress is satisfactory. The normal process for granting of tenure will be followed. The National Solar Observatory is a partner in this initiative and its facilities will be available to the successful candidate. Current faculty and research staff in the Department are involved in the scientific exploration of the Solar System, Sun and heliosphere, comparative studies of the Earth and planets, and inquiry into the presence and origin of planetary systems and life, using telescopic observations, laboratory experiments, theoretical studies, and spacecraft missions. Current faculty carrying out solar and heliospheric research include J.R. Jokipii, J. Giacalone and J. Kota. For full job description, minimum qualifications and to apply online, please see www.hr.arizona.edu and reference job #32180. The University of Arizona is an EEO/AA employer - M/W/D/V.

No. 21723**Postdoctoral Fellow****UNIVERSITY OF MICHIGAN****500 Church Street****830 Dennison Building****Ann Arbor, MI 48109-1042****USA****Tel: 734-764-3440****FAX: 734-763-6317****Email Submission Address: sarlloyd@umich.edu****Email Inquiries: dor@umich.edu*****Attention: Sarah Lloyd, Secretary***

Applications are invited for a post-doctoral position in astronomy at the University of Michigan. We are interested in applicants in the fields of extragalactic astronomy, high energy and compact objects, and star and planet formation. Applicants should have research interests which complement those of existing department members, which include black holes and the centers of galaxies, black holes of all masses, X-ray sources, protostellar chemistry and hydrodynamics and accretion physics in stellar and relativistic environments. Interested applicants should send their CV, bibliography, and statement of research interests, and arrange for 3 letters of recommendation to be sent to Sarah Lloyd. First consideration will go to applications received by April 15. Email inquiries can be addressed to Douglas Richstone (dor@umich.edu) or Joel Bregman (jbregman@umich.edu). The University of Michigan is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

No. 21724**Systems Programmer / Computational Astrophysicist****YALE UNIVERSITY****Human Resources Department****P.O. Box 208256 155 Whitney Ave.****New Haven, CT 06511****USA****Tel: (203) 432-5775****URL1: <http://www.yale.edu/jobs>**

URL2: <http://www.astro.yale.edu>
Email Submission Address: corey.rossman@yale.edu
Email Inquiries: bailyn@astro.yale.edu

Attention: Mr. Corey Rossman

Systems Programmer / Computational Astrophysicist

Yale University's Department of Astronomy seeks a systems programmer or computational astrophysicist to help manage a mixed platform environment that includes 65 LINUX workstations and servers, and to provide computer expertise and end user support to faculty, research staff and students. Participation in ongoing department research and public outreach programs, and some personal research time may be possible for appropriately qualified individuals. Requires a bachelor's degree in astronomy, computer science, physics or a related field, and systems administration experience in a LINUX/UNIX based research oriented environment. An understanding of Windows and Macintosh operating systems, and a masters or PhD degree and/or experience in astronomical research are preferred.

This is a university-funded position with excellent benefits including:

22 vacation days, 14 holiday/recess days, 12 sick days, 4 personal days per year

A scholarship program for sons and daughters if they attend a four-year degree program

A generous retirement annuity program

Access to University academic and recreational facilities

Discover the excitement, diversity, rewards, and excellence of a career at Yale University, an equal opportunity employer. Apply on line at www.yale.edu/jobs with resume and cover letter addressed to Mr. Corey Rossman . Please reference Source Code EAAST20920. For further information please contact Prof. Charles Bailyn at bailyn@astro.yale.edu.

No. 21725

Software Developers

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

60 Garden St., MS-17

Cambridge, MA 02138

USA

Tel:

Email Submission Address: saoresumes@cfa.harvard.edu

Attention: Recruiter 229, Job Code #25-41

SOFTWARE DEVELOPERS Trust Fund Indefinite (Non-Federal), \$42,182 to \$83,516/yr & excellent benefits Salary commensurate with qualifications and experience.

We have 2 openings for programmers to provide software development support to data

processing and analysis being conducted on data obtained by NASA's Chandra Observatory.

The developer receives assignments from their team leader and works closely with members of the software team and other scientists participating in the project. The employee may:

Design and implement all aspects of the software development life cycle: requirements definition, design, code, debugging, verification and test; Develop new software modules to be used in complex software systems supporting data processing and analysis on multiple Unix platforms;

Modify legacy software, adding enhancements and new features to the existing software system;

Estimate development efforts, commit to schedules, support releases of end-user software;

Test all software system components at the module level, and define modular regression tests to insure proper installation and operational functionality of individual software components;

Develop user and interface documentation for software enhancements to the system;

Provide support to the user community in regards to capabilities and operations of the software system.

Software systems will be used for, however not limited to, the following: support scientific data analysis, graphically present mission and data analysis information, standard data processing tasks, infrastructure and engineering tasks, data archive and retrieval, and graphical presentation of data.

POSITIONS REQUIRE: a background in software with a minimum of a BS/BA degree in computer science, engineering, mathematics, or a physical science (physics or astronomy); experience with C/C++ in a Unix environment;

good verbal and written communication skills;

familiarity with multi-platform environments, scripting languages, and code management tools.

Qualified applicants should forward their resume to: Recruiter 229, Job Code #25-41, at the Smithsonian Astrophysical Observatory, 60 Garden St., MS-17, Cambridge, MA 02138, or via e-mail to: saoresumes@cfa.harvard.edu Please note that the e-mail address is for the submission of application materials only.

To view the complete Job Vacancy Announcement, visit our website at: <http://cfa-www.harvard.edu/cfa/hr/postings/25-41.htm>

We are an Equal Opportunity Employer, committed to diversity in our workplace.

No. 21726

**Research Associate in Observation of GRB-OA - NORFOLK STATE UNIVERSITY
NORFOLK STATE UNIVERSITY
700 Park Avenue**

Norfolk, Virginia 23504

USA

Tel: 757-823-8909

FAX: 757-823-8817

Email Submission Address: salgado@jlab.org

Email Inquiries: salgado@jlab.org

Attention: Carlos Salgado, Prof

Norfolk State University (NSU) is seeking applicants for a Research Associate position in Astronomy. The successful candidate will participate in the photometric analysis of Gamma Ray Bursts After-gloves from the Swift mission and ground based telescopic data. He/she will also participate in the operation of a new Rapid Response Robotic Telescope to be located at Fan Mountain, Virginia. She/he will be based at NSU but work in close collaboration with members of the University of Virginia's Department of Astronomy and the NASA GSFC in Greenbelt, MD. The appointment is funded by a NASA-MUI grant and renewable annually up to a period of 3 years subject to mutual satisfaction and availability of funds.

To receive consideration, candidates should have a Ph. D. in Astronomy or Physics and demonstrated interest in Observational (Photometry and/or Polarimetry) Astronomy. Norfolk State University is one of the country's leading Historically Black Colleges and Universities (HBCU). It is located downtown Norfolk, Virginia, at the center of the Hampton Roads area, approximately 3 ½ hours by car from Washington D.C.

Interested candidates should send curriculum vitae and provide three names for reference to: Prof. Carlos W. Salgado, Department of Physics, Norfolk State University, 700 Park Avenue, Norfolk, VA 23504.

Review of candidates will start immediately and continue until the position is filled.

Contact: Prof. Carlos W. Salgado, e-mail: salgado@jlab.org Norfolk State University is an affirmative action/equal opportunity employer. Minorities and women are specially encouraged to apply.

No. 21727

Postdoctoral Research Associate/Lunar and Planetary Laboratory

UNIVERSITY OF ARIZONA

Tel:

Attention: Linda Hickcox

Applications are invited for two postdoctoral positions associated with the High Resolution Imaging Science Experiment (HiRISE) located at the Lunar and Planetary Laboratory at the University of Arizona. Research emphasis will be on Mars and to serve as targeting specialists for the HiRISE project to be launched on the Mars Reconnaissance Orbiter in August 2005. Work will begin in 2005 or early 2006 and support is expected to be available for at least three years with a starting salary range of \$33,000 to \$37,000 (which may be negotiable). The research area of special interest is Mars geology that is relevant to HiRISE, including fieldwork

on terrestrial analogs and quantitative studies using digital topography and other data. Other useful skills and experience include remote sensing and image processing, especially point-spread function deconvolution and analyses of spacecraft jitter effects on images. Research Associate(s) will be encouraged to propose for additional research funding as PI. The University of Arizona is an Equal Employment Opportunity/Affirmative Action/ADA Employer. Candidates must be US Citizens or Resident Aliens to be eligible to apply for this position in accordance with NASA/JPL requirements and ITAR/EAR export control restrictions. Please go to: www.hr.arizona.edu / for a complete job description and to apply online referencing job #32449.

No. 21728**Junior Scientific Researcher (Star & Planet Formation)****INSTITUTE FOR ASTRONOMY****2530 Dole St.****Sakamaki Hall D-100****Honolulu, Hawaii 96822****USA****Tel:****FAX: (808) 956-5022****URL1: <http://www.rcuh.com>****Email Inquiries: mliu@ifahawaii.edu*****Attention: Nelson Sakamoto, Director of Human Resources***

JUNIOR SCIENTIFIC RESEARCHER – STAR & PLANET FORMATION – ID# 25143
Postdoctoral Research Position in Star and Planet Formation

The Institute for Astronomy (IfA) at the University of Hawaii invites applications for a postdoctoral research position in star and planet formation located in Honolulu, Hawaii. The successful applicant will collaborate with Dr. Michael Liu on observational research on the formation and evolution of low-mass stars, brown dwarfs, extrasolar planets, and/or circumstellar disks. Applicants with interest and experience in any of these areas are encouraged to apply. This position is supported by funding from NSF and the Alfred P. Sloan Foundation.

Demonstrated expertise in optical and/or infrared observational astronomy is essential. Experience with wide-field surveys and/or high resolution imaging is desirable, but not mandatory. The successful applicant will have full access to optical, IR, and sub-millimeter telescopes at Mauna Kea Observatories, through the IfA's guaranteed share of observing time. Upon hire, candidates should have obtained a PhD degree in Astronomy, Physics or equivalent area relevant to the science themes described above.

The initial appointment is for two years, subject to performance. Subsequent funding for additional years is available and will depend on performance. The position is available immediately, but the start date is flexible and can be anytime in 2005. The annual salary will be approximately \$52,800 per year and will include support for research activities. Please submit a statement of research and three letters of reference in addition to the application requirements.

For complete information and application requirements, please go to www.rcuh.com and click on "Employment".

No. 21729**Anglo-Australian Planet Search Research Fellow****ANGLO-AUSTRALIAN OBSERVATORY****167 Vimiera Rd****Eastwood, NSW 2122****Australia****Tel: +61 2 9372 4800****FAX: +61 2 9372 4880****URL1: <http://www.aao.gov.au/local/www/jobs/>****(Application Information)****URL2: <http://www.aao.gov.au/>****(AAO Home Page)****URL3: <http://www.aao.gov.au/local/www/cgt/planet/aat.html>****(AAPS Web page)****Email Submission Address: jobs@ao.gov.au****Email Inquiries: cgt@aaoepp.aao.gov.au*****Attention: Ms Greta Sims, Personnel Officer***

AAPS RESEARCH FELLOW A\$59,836 (plus employer's superannuation contribution)

The Anglo-Australian Observatory (AAO) wishes to appoint a highly motivated Research Fellow to work with Dr Chris Tinney and the Anglo-Australian Planet Search team. The position will be based at the Epping Laboratory, in Sydney, about 25km from the centre of Sydney. The Epping campus is also home to the Australia Telescope National Facility. Candidates should have a strong background in astronomy, astrophysics or a related branch of experimental physics, and preferably experience in high resolution optical spectroscopy, planetary research, or the simulation of large observing databases

The appointment will be for a period of three years, subject to a six month probationary period. The starting salary will be \$A59836 plus employer superannuation contributions and removal expenses. Applications should include a curriculum vitae, list of publications, a statement of research experience, and the names and addresses (including e-mail and phone) of three referees familiar with the applicant's work. The applicant must arrange for references to be sent before the closing date, which is May 2, 2005.

Further information about the position, instructions for application, and the full text of the advertisement can be obtained from <http://www.aao.gov.au/local/www/jobs> . Questions about the position should be addressed to Chris Tinney, Head of Astronomy, Phone +61 2 9372 4849; Fax +61 2 9372 4880 or e-mail: cgt@aaoepp.aao.gov.au,

The Anglo-Australian Observatory is an Equal Opportunity Employer

No. 21730**SDSS-II Observer****APACHE POINT OBSERVAOTY**

POB 59
Sunspot, New Mexico 88349-0059
USA
Tel:
URL1: <http://www.apo.nmsu.edu>
(Apache Point Observatory)
URL2: <http://www.sdss.org>
(Sloan Digital Sky Survey)

Attention: Bruce Gillespie, Site Operations Manager

The Sloan Digital Sky Survey-II (SDSS-II) is seeking technical- and data-oriented astronomers for positions as additional SDSS-II Observers to conduct Survey observing at Apache Point Observatory (APO).

SDSS-II is a three-component extension to the SDSS: the Legacy survey will acquire more extragalactic redshifts in the North Galactic Cap; the SEGUE survey will undertake a major new imaging and spectroscopic survey of Galactic structure; and the Supernova survey will detect and measure ~200 Type Ia supernovae at intermediate redshifts. Using the 2.5-meter SDSS telescope, Observers will make five-bandpass imaging observations of over 12,000 square degrees of sky and obtain the spectra of over 1 million galaxies, quasars and stars using a 54-CCD imaging camera, a 640-fiber spectrograph, and a photometric calibration telescope.

Observers are full scientific participants in the SDSS-II; they are encouraged to undertake research programs with the data and to take advantage of the SDSS-II collaboration's network of scientific effort.

Data for SDSS-II will be acquired from 1 July 2005 through 30 June 2008, and we expect that Observers will wish to participate in the entire survey.

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

We seek individuals with a PhD in astronomy or equivalent academic background, but all degreed applicants with appropriate experience and strong scientific motivation will be considered. Relevant experience includes hands-on telescope operation (with attendant mechanical and computer expertise); proficiency in Unix/Linux, TCL, IDL, C, and IRAF; imaging and spectroscopic data reduction; and CCD instrumentation and electronics. Unix programming skills are desirable.

Please send application letter and curriculum vitae (naming three references) to above, hardcopy only (e-mail submissions not accepted). Positions will remain open until filled. Employment is contingent on funding and eligibility for employment in U.S. EEO/AA

No. 21731
Post-Doc in Observational Cosmology

UNIVERSITY OF LOUISVILLE**Tel: 410-516-3336****FAX: 410-516-5494****URL1: <http://fuse.pha.jhu.edu/~williger/postdoc.html>****(further information)****URL2:****URL3:****Email Submission Address: williger@pha.jhu.edu****Email Inquiries: williger@pha.jhu.edu*****Attention: Gerard Williger***

A postdoctoral position is available from autumn 2005 to work with Dr. Gerard Williger at Louisville in the area of large-scale structure at high redshift, high redshift galaxies and the intergalactic medium. Research would be on HST, GALEX and Chandra projects concentrating on large quasar groups, the foreground proximity effect and Lyman-alpha blobs. There are also ground-based program aspects dealing with medium and high dispersion spectroscopy, plus broadband and Fabry-Perot images. Innovative methods to exploit data archives in these areas would be desirable. An interest in proto-planetary disks may also be helpful.

The position is initially for two years. Independent complementary research would be encouraged, as would developing grant support for continuing employment. Entry at a higher position may be possible, commensurate with experience.

Louisville has a joint PhD program with Kentucky and aims to strengthen its astronomy. Research areas which could result in collaborations with astronomers at nearby institutions (especially Kentucky and Cincinnati) would be desirable. The area combines a low cost of living with the amenities of a large city.

Applicants must have a PhD, and should e-mail in postscript or pdf format a CV, bibliography, two page research statement including a discussion of how the applicant can contribute to the above research topics and the names and contact information of three references to williger@pha.jhu.edu. Paper applications (less preferred) can be sent to G. Williger, Dept. of Physics & Astronomy, Johns Hopkins U., Baltimore MD 21218. Applications will be reviewed beginning May 1, 2005 and will be considered until the position is filled. Louisville is an EOE/AA employer and encourages applications from traditionally under-represented groups.

No. 21732**Postdoctoral Fellow in Optical /IR Astronomy****CARNEGIE OBSERVATORIES****813 Santa Barbara Street****Pasadena, CA 91101****Tel: 626-304-0204****FAX: 626-304-0266****URL1: <http://www.ociw.edu>****Email Submission Address: wendy@ociw.edu****Email Inquiries: silvia@ociw.edu*****Attention: Dr. Wendy Freedman, Director***

Attention: Dr. Wendy Freedman, Re: Postdoctoral Fellowship

We invite applications for a postdoctoral fellow in optical/IR astronomy at the Carnegie Observatories in Pasadena, California, to begin as soon as possible.

The successful candidate will participate in the high-redshift part of the Carnegie Supernova Program, already underway at the 6.5m Magellan telescope at Las Campanas, Chile, and will be responsible for developing data processing tools for the analysis and calibration of IR photometry of distant supernovae, and their application to the testing of cosmological models. The candidate will take part in the observing at the Magellan 6.5m and work in a group including Drs. Wendy Freedman, Eric Persson, Barry Madore and Mark Phillips.

Data-analysis and high-level programming experience is a requirement. Prior observing experience with panoramic infrared (or optical CCD) detectors is expected. Familiarity with scripting languages, such as PERL or PYTHON would be an advantage, and prior background in the field of observational cosmology is desirable, but not essential. The successful applicant must have completed a Ph.D. before assuming the fellowship.

The application should include a curriculum vitae, bibliography, and a brief essay describing the applicant's current research. In addition, applicants should arrange for three letters of reference to be sent directly to the above address by the deadline. Applications, letters of reference, and all supporting material must be received before 1 June 2005.

The Carnegie Institution of Washington is an Equal Opportunity Employer.

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