



## March 2005

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## 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

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### 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 institutions from developing countries. In all cases, a formal petition for a reduced fee must be sent by email or FAX to the Deputy Executive Officer, [Dr. Kevin B. Marvel](#) requesting a discount and justifying the request.

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

### **Announcement Requirements**

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

Jobs will not be published without the following:

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

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

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

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

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](mailto: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](mailto: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. 21418**

**Research Astronomer**

**CORNELL UNIVERSITY**

**228 Space Sciences Building**

**Dept. of Astronomy**

**Ithaca, NY 14853-6801**

**USA**

**Tel: 607-255-4805**

**FAX: 607-255-5875**

**Email Submission Address: [LM19@cornell.edu](mailto:LM19@cornell.edu)**

**Email Inquiries: [LM19@cornell.edu](mailto:LM19@cornell.edu)**

***Attention: Laurie McCall, Executive Staff Assistant***

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The Spitzer/IRS group at the Astronomy Department of Cornell University invites applications for Research Astronomer positions within the Spitzer Space Telescope (SST) Infrared Spectrograph (IRS) project (PI Jim Houck). Information on the Spitzer Space Telescope and the IRS can be found at: <http://ssc.spitzer.caltech.edu> and <http://isc.astro.cornell.edu/> The successful applicant(s) is expected to play a significant role in the analysis, interpretation and publication of the IRS Guaranteed Time Observing (GTO) program on the Spitzer Space Telescope (SST). For the first 2.5 years of the Spitzer mission the IRS team has 875 hours of observations using all three instruments on board Spitzer (IRAC, IRS and MIPS). The IRS is working extremely well and the data quality is outstanding. The GTO program covers a wide range of scientific topics from our solar system, circumstellar disks, and ISM, to nearby galaxies, ULIRGs, AGN, and objects at high redshift. All observations of the IRS GTO program are covered by a one-year proprietary period. The successful applicant will actively participate in the interpretation of the scientific data, presentation of the results at scientific meetings and their publication in scientific journals. We are interested in innovative individuals with some background in infrared astronomy and/or spectroscopy, who work well on group activities, and have the desire to see the scientific end products. A Ph.D. in astronomy, physics, or a closely related field is required. Applications from both observers and theorists with relevant experience are welcome. We are interested in individuals who have several years of post-PhD research experience as well as recent graduates. The appointment will initially be for two years, with possible extensions up to the expected 5+ (five-plus) years life time of the mission. Candidates will also have access to Cornell operated facilities (such as Palomar and Arecibo observatories) and benefit from stimulating scientific interactions within the Department of Astronomy ( <http://www.astro.cornell.edu> ). Salaries will depend on experience and are likely to be well above average. If this opportunity sounds interesting to you, please send a copy of your vita, research interests and the names of three individuals who are willing to write reference letters to Ms. Laurie McCall, Cornell University, 228 Space Sciences Building, Ithaca, NY 14853. Applications via email to [lm19@cornell.edu](mailto:lm19@cornell.edu) are encouraged. For full consideration applications should be received before 15 April 2005, although applications will be reviewed up until the positions are filled.

**No. 21498****Lecturer/Senior Lecturer in Astrophysics (2 posts)****ASTROPHYSICS RESEARCH INSTITUTE, LIVERPOOL JOHN MOORES UNIVERSITY****Rodney House****70 Mount Pleasant****Liverpool, Merseyside L3 5 UX****UK****Tel: +44 (0) 151 231 3519****FAX: +44 (0) 151 231 3191****URL1: <http://www.livjm.ac.uk/about/vacancies>****(Further details and application form)****URL2: <http://www.astro.livjm.ac.uk>****(ARI home page)****URL3: <http://www.livjm.ac.uk>****(LJMU home page)****Email Inquiries: [cac@astro.livjm.ac.uk](mailto:cac@astro.livjm.ac.uk)****Attention: Personnel Services**

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The Astrophysics Research Institute (ARI) seeks to appoint two lecturers to carry out internationally competitive research contributing to one of the Institute's existing areas of excellence. These posts are part of a major expansion of the ARI involving 5 new academic positions created as a result of expansion and additional funding. It is expected that the appointed candidates will already have a PhD in astronomy or related subject and be established independent researchers with excellent publication records. In addition to research, the appointees will be expected to contribute to other areas of the Institute's activities, namely teaching, astronomical instrumentation or e-Science.

The ARI is one of the most productive astronomy centres in the UK, carrying out research in time-domain astrophysics, star formation, the structure and stellar content of galaxies and cosmology. The Institute owns and operates as a national facility the 2 metre robotic Liverpool Telescope sited on La Palma in the Canary Islands, and is also a centre for e-Science, astronomical instrumentation, the lead partner in RoboNet and a consortium partner of e-Merlin. The ARI runs innovative distance learning courses and a joint degree programme with the University of Liverpool which achieved the maximum rating in the last QAA subject review. It is also engaged in major outreach activities principally through the National Schools' Observatory and an astronomical visitors centre Spaceport.

A full CV, together with a statement of research interests and the names of two referees should be sent quoting reference B6858.

**No. 21508****Isaac Roberts Fellowship in Astrophysics****ASTROPHYSICS RESEARCH INSTITUTE, LIVERPOOL JOHN MOORES UNIVERSITY****Rodney House****70 Mount Pleasant****Liverpool, Merseyside L3 5UX****UK****Tel: +44 (0) 151 231 3519**

**FAX: +44 (0) 151 231 3191**  
**URL1: <http://www.livjm.ac.uk/about/vacancies>**  
**(Further details and application form)**  
**URL2: <http://www.astro.livjm.ac.uk>**  
**(ARI home page)**  
**URL3: <http://www.livjm.ac.uk>**  
**(LJMU home page)**  
**Email Inquiries: [cac@astro.livjm.ac.uk](mailto:cac@astro.livjm.ac.uk)**

**Attention: Personnel Services**

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The Astrophysics Research Institute (ARI) seeks an enthusiastic research fellow with a good track record and excellent promise in a research area close to the interests of the Institute. This post is part of a major expansion of the ARI involving 5 new academic positions created as a result of additional funding. It is expected that the appointed fellow will have excellent communication skills and contribute to the wider research environment of the Institute. The fellowship is named after the Welsh astronomer Isaac Roberts (1829-1904), who was a pioneer of astro-photography while working locally in Birkenhead and had a long association with Merseyside. This position is fixed term for 3 years in the first instance.

The ARI is one of the most productive astronomy centres in the UK, carrying out research in time-domain astrophysics, star formation, the structure and stellar content of galaxies and cosmology. The Institute owns and operates as a national facility the 2 metre robotic Liverpool Telescope sited on La Palma in the Canary Islands, and is also a centre for e-Science, astronomical instrumentation, the lead partner in RoboNet and a consortium partner of e-Merlin. The ARI runs innovative distance learning courses and a joint degree with the University of Liverpool which achieved the maximum rating in the last QAA subject review. The ARI is also engaged in major outreach activities principally through the National Schools' Observatory and an astronomical visitors centre Spaceport.

A full CV, together with a statement of research interests and the names of two referees should be sent quoting reference B6860.

**No. 21520**  
**SALT Astronomers**  
**SOUTH AFRICAN ASTRONOMICAL OBSERVATORY**  
**Observatory Road**  
**Observatory**  
**Cape Town, Western Cape 7935**  
**South Africa**  
**Tel: +27 21 447 0025**  
**FAX: +27 21 447 3639**  
**URL1: <http://www.sao.ac.za>**  
**(South African Astronomical Observatory)**  
**URL2: <http://www.salt.ac.za>**  
**(SALT)**  
**Email Submission Address: [linda@sao.ac.za](mailto:linda@sao.ac.za)**  
**Email Inquiries: [dibnob@sao.ac.za](mailto:dibnob@sao.ac.za)**

**Attention: Ms Linda Tobin, Human Resources Officer**

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The South African Astronomical Observatory (SAAO) requires astronomers dedicated to supporting the astronomical operations of the Southern African Large Telescope (SALT) – a 10-m class optical/near IR telescope – due for completion in early 2005. SALT is based near Sutherland, some 380 km inland from the SAAO headquarters in Cape Town.

The applicants should hold a PhD and have some postdoctoral experience in observational astronomy and data reduction. In addition, instrumental and/or software expertise would be an advantage. The latter might include experience in writing web based and Java software, using astronomical data reduction packages (e.g. IRAF) and maintaining web based information pages and software. SALT Astronomers will be based in Cape Town, but will be expected to regularly conduct service observing (e.g. one week in six) on SALT, which is a queue-scheduled telescope. SALT related duties consist of preparing, scheduling and carrying out of observations on behalf of the SALT users, performing on-line and pipeline data analysis, writing software and liaising with users who will be interacting with the SALT Operations Team over the Internet. A generous amount of personal research time and resources, using SALT and other SAAO facilities, will also be available.

The SA positions will initially be for a period of three years, with the possibility of extensions or permanent appointments thereafter. The salary package will be commensurate with qualifications and experience. Interested applicants should contact the above for further particulars and details on how to apply. Completed applications must be received no later than 31 March 2005.

**No. 21566****SAO Predoctoral Fellowship 2005****SMITHSONIAN ASTROPHYSICAL OBSERVATORY****60 Garden Street, Mail Stop 47****Cambridge, MA 02138****United States****Tel: 617-495-7103****URL1: <http://cfa-www.harvard.edu/predoc/>****Email Inquiries: [predoc@cfa.harvard.edu](mailto:predoc@cfa.harvard.edu)****Attention: Coordinator, Fellowship Committee**

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The Smithsonian Astrophysical Observatory announces the availability of predoctoral fellowships beginning in July 2005, designed to allow students from other institutions throughout the world to do their thesis research at SAO. A wide variety of research projects may be proposed, with about 300 SAO scientific staff available as research advisors (see <http://www.si.edu/ofg/Units/sorssao.htm> for a complete list of potential advisors). Applicants should directly contact Smithsonian scientists in their areas of interest to discuss possible research topics (see <http://www.cfa.harvard.edu/predoc/researchers.html> for a partial list of available research topics). Applicants must be ready to begin dissertation research at the time of the award.

Fellowships are awarded for one year at a time with possible renewal up to three years,

contingent upon funding. Stipends will be \$25,200 for the coming year. Funds are also provided for health benefits and relocation expenses. Applications are due by April 15, 2005.

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

We are an Equal Opportunity/Affirmative Action Employer; all qualified applicants receive consideration for employment without regard to race, creed, color, sex or national origin.

**No. 21575**

**Postdoctoral position, clusters of galaxies**

**OHIO UNIVERSITY**

**Astrophysical Institute and Dept. of Physics & Astronomy**

**Clippinger Labs**

**Athens, OH 45701**

**USA**

**Tel: 740-593-0063**

**FAX: 740-593-0433**

**Email Submission Address: [mcnamarb@ohio.edu](mailto:mcnamarb@ohio.edu)**

**Email Inquiries: [mcnamarb@ohio.edu](mailto:mcnamarb@ohio.edu)**

***Attention: B.R. McNamara, Professor***

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Applications are invited for a postdoctoral appointment in astrophysics affiliated with the Astrophysical Institute and Department of Physics & Astronomy at Ohio University. The research concerns the analysis of X-ray, optical, and radio observations of galaxy clusters. The appointment will be one to two years in duration, but a longer appointment may be possible if funding allows. The institute has excellent computer and telescope facilities, including partnership in the MDM Observatory on Kitt Peak, AZ. The appointee will be eligible to compete for time on the 2.4-m Hiltner telescope and 1.2-m McGraw Hill telescope on Kitt Peak. The institute is a partner in a \$1.4 million research initiative to explore the structure of the Universe on all scales, and the department expects to hire three new faculty members in the near future to propel this initiative. The Astrophysical Institute includes nine faculty members, eleven graduate students, and six undergraduates. Their research interests include clusters of galaxies, galactic dynamics, emission-line galaxies, supermassive black holes, active galactic nuclei, nuclear astrophysics, and planetar physics. A Ph.D. in astronomy or physics is required. The applicant should send a curriculum vitae, a publication list, a brief research statement, and arrange for three letters of reference to be sent to Prof. Brian McNamara. To receive full consideration, all application material should be received by March 15, 2005. Applications may be sent by post or email to [mcnamarb@ohio.edu](mailto:mcnamarb@ohio.edu).

**No. 21577**

**Research Scientist in Radio Astronomy**

**UNIVERSITY OF ILLINOIS**

**University of Illinois**

**1002 W Green St**

**Urbana, IL 61801**

**USA**

**Tel: 1 (217) 333-9581**

**FAX: 1 (217) 244-7638**

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

(Illinois Astronomy Department)

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

(CARMA)

Email Submission Address: [crutcher@uiuc.edu](mailto:crutcher@uiuc.edu)

Email Inquiries: [crutcher@uiuc.edu](mailto:crutcher@uiuc.edu)

**Attention: Richard Crutcher, Professor**

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The Laboratory for Astrophysical Imaging (LAI) in the Department of Astronomy at the University of Illinois at Urbana-Champaign (UIUC) seeks applications for a Research Scientist position. This is a 12-month academic professional research position with full benefits and indefinite term, subject to satisfactory performance and availability of funds. We are seeking an astronomer with observational or instrument development expertise whose interests complement science using the CARMA array.

The CARMA array is a millimeter-wave interferometer formed from the merger of the BIMA, OVRO, and SZA arrays. CARMA is operated in collaboration with Caltech, UC Berkeley, Maryland, and Chicago. First light for CARMA is expected in late 2005. CARMA will operate from 30 to 270 GHz with a resolution to about 0.1 arcsecond at the higher frequencies. Its sensitivity at 230 GHz will be about a factor of ten better than the BIMA array.

The duties of this position will include conducting astronomy research with CARMA and publishing the results in referred journals, assisting in the preparation of proposals for external financial support for UIUC participation in CARMA, assisting in operation of the telescope on site in California, providing consulting to UIUC astronomers on problems of observing and data processing, and carrying out other duties related to CARMA as assigned by the Director of the LAI.

The successful applicant must have a Ph.D. in Astronomy or a closely related field, a minimum of 3 years experience with using radio synthesis techniques for astronomy research, a strong background in publishing astronomy research in referred journals, and have experience with radio astronomy synthesis imaging software, especially MIRIAD. Salary is commensurate with experience. Proposed starting date is 1 July 2005, or by mutual agreement.

Applicants should send a curriculum vitae, list of publications, statement of research interests, and request at least three references to submit letters of recommendation to: Research Scientist Search c/o: Professor Richard Crutcher, Department of Astronomy, 1002 W. Green St., Urbana, IL 61801

Applications must be received by March 31, 2005 to receive full consideration. Minorities and women are particularly encouraged to apply. UIUC is a AA-EOE employer.

**No. 21581**

**Postdoctoral Research Positions in Astrophysics**

**CARNEGIE MELLON UNIVERSITY**

**Department of Physics**

**pittsburgh, PA 15213**

**United States**

**Tel: 412-268-8717**

**FAX: 412-681-0648**

**URL1: <http://astrophysics.phys.cmu.edu/>**

**Email Submission Address: [tiziana@lemo.phys.cmu.edu](mailto:tiziana@lemo.phys.cmu.edu)**

**Email Inquiries: [tiziana@lemo.phys.cmu.edu](mailto:tiziana@lemo.phys.cmu.edu), [rcroft@cmu.edu](mailto:rcroft@cmu.edu)**

***Attention: Tiziana Di Matteo, Professor***

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Applications are invited for 2 postdoctoral research associate positions in astrophysics and cosmology at Carnegie Mellon University. The candidates should have a PhD in astronomy and/or astrophysics and experience in the study of extragalactic astrophysics and/or cosmology.

The Carnegie Mellon Astrophysics group includes faculty members Tiziana Di Matteo (arriving Jan 2005), Richard Griffiths, Jeff Peterson, Rupert Croft, and research faculty Takamitsu Miyaji. The department is 5 minutes walk from the Physics and Astronomy department at the neighboring University of Pittsburgh.

Applicants should submit a curriculum vitae, a publication list, a brief description of research interests, and arrange for three letters of reference to be sent directly to Tiziana Di Matteo at the above address. One position is directly associated with Prof. Di Matteo and the appointment is initially for 1 year, with likely renewal for another 2 years. The other appointment is initially for 1 year, with likely renewal for a second year. Both positions have a nominal start date of September 2005, although earlier dates are possible. Informal inquiries are welcome. Consideration of applications will begin on February 15th, and will continue until the positions are filled.

Carnegie Mellon University is an equal opportunity/affirmative action employer.

**No. 21583**

**Postdoctoral Associate in X-ray Astronomy**

**HARVARD UNIVERSITY**

**Center for Astrophysics**

**60 Garden Street MS-46**

**Cambridge, MA 02138**

**USA**

**Tel: +1-617-495-3752**

**FAX: +1-617-495-7105**

**URL1: <http://cfa-www.harvard.edu>**

**Email Submission Address: [jclee@cfa.harvard.edu](mailto:jclee@cfa.harvard.edu)**

**Email Inquiries: [jclee@cfa.harvard.edu](mailto:jclee@cfa.harvard.edu)**

***Attention: Peggy Herlihy, Department Administrator***

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Applications are invited for a position as a postdoctoral associate at the Center for Astrophysics, Harvard University, to work with Dr. Julia Lee on a research program involving spectral studies of energetic accretion systems, Galactic and extragalactic. The work will focus primarily on determining the plasma conditions of these systems using high resolution X-ray

spectra taken with the Chandra HETGS, but will likely also involve broad band studies with HST, FUSE, RXTE and ground-based instruments. Research projects will center on plasma diagnostics of circum-source material and accretion disk environments close to the black hole. Other research topics may be available, depending on the interest and experience of the appointee.

Candidates must possess a PhD in physics or astrophysics at time of appointment. Demonstrated experience in spectral analysis is desired, but not required. Applicants should be skilled at oral and written communication. This position will be offered for an initial period of one year, with an extension to a second and third year subject to performance; the expected start date is fall-2005.

Interested candidates should send a curriculum vitae, list of publications and statement of research interests to Dr. Julia Lee, c/o Ms. Peggy Herlihy 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 1 April 2005. Further information can be obtained via email to Julia Lee at [jclee@cfa.harvard.edu](mailto:jclee@cfa.harvard.edu)

**No. 21585**  
**HIGH ENERGY EXTRAGALACTIC ASTRONOMER**  
**JOHNS HOPKINS UNIVERSITY**  
**3701 San Martin Drive**  
**Dept. of Physics and Astronomy**  
**Baltimore, Maryland 21218**  
**USA**  
**Tel: 410-516-8649**  
**FAX: 410-516-5096**  
**Email Submission Address: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**  
**Email Inquiries: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**

***Attention: Dr. Tahir Yaqoob, Dr.***

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## HIGH ENERGY EXTRAGALACTIC ASTRONOMER

The Johns Hopkins University Center for Astrophysical Sciences seek a scientist to work with Dr. James Reeves at the Goddard Space Flight Center's Laboratory for High Energy Astrophysics. The successful candidate will work on data from high energy observations of extragalactic sources (AGN, quasars, nearby galaxies, Gamma-ray bursts). In particular the research will involve analysis of new and archival data from Chandra and XMM-Newton, as well as AstroE2 and Swift. The scientist will also be encouraged to maintain and develop his/her own research interests. Experience in X-ray data analysis and some knowledge of X-ray spectroscopy would be an advantage.

The position, to begin as soon as possible after the closing date, is for two years with the possibility of extension, depending on funding. Applicants should hold a Ph.D. in astronomy.

Applications received before March 31, 2005 will receive full consideration. Send application and vita, including brief description of past and proposed research to: Dr. Tahir Yaqoob, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218.

Applicants should also arrange to have three letters of reference sent. The Johns Hopkins University encourages applications from women and minority candidates. AAE/EOE.

**No. 21586****Lecturer****UNIVERSITY OF MARYLAND****Department of Astronomy****College Park, MD 20742****US****Tel: 301-405-3000****FAX: 301-314-9067****URL1: <http://www.astro.umd.edu>***(Department home page)***URL2: <http://www.scholars.umd.edu>***(College Park Scholars)****Attention: Lecturer Search Committee***

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The Department of Astronomy anticipates an opening for a lecturer starting in Fall 2005. The primary duty would involve working in "Science, Discovery and the Universe" which is a honors type program in the College Park Scholars program. (The URL for the Scholars program is given in this ad.) Duties in this program would include teaching courses in the Scholars program as well as involvement with student research projects. Other duties would involve teaching in the regular department schedule. This teaching would be astronomy courses for non-science majors. Applications received by March 31, 2005 will be given full consideration.

**No. 21598****Research Associate/Assistant Astronomer****THE UNIVERSITY OF ARIZONA STEWARD OBSERVATORY****Tel:****URL1: <http://mips.as.arizona.edu>***(MIPS Home Page)***URL2: <http://www.hr.arizona.edu>***(Human Resources Home Page)***URL3: <http://www.as.arizona.edu>***(Steward Observatory Home Page)***Email Submission Address: [www.hr.arizona.edu](http://www.hr.arizona.edu)****Email Inquiries: [dwilson@as.arizona.edu](mailto:dwilson@as.arizona.edu)*****Attention:***

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We invite applications for one or more positions to work on a guaranteed time program with the Multiband Imaging Photometer for Spitzer (MIPS). MIPS images in spectral bands at 24, 70, and 160 microns, using high performance infrared arrays. To learn more about this instrument, look at <http://mips.as.arizona.edu/> .

Responsibilities will include helping us reduce, analyze, and write papers on data obtained in the GTO program, and helping plan the program for the second half of the mission (estimated

at 2.5 years duration). Prior infrared experience is not required for a candidate with strong qualifications. Although responsibilities for the Spitzer program must have priority, the positions include full access to other research capabilities at Steward Observatory, such as the 6.5-m MMT, the Magellan Telescopes, and the 10-m submm telescope.

The positions can be at the postdoctoral level or in the research ranks of Steward Observatory, at salaries from \$42,000 to \$53,000, depending on qualifications and experience. Review of applications will begin April 1, 2005, and will continue until filled. A position may be available as early as July 2005. To apply, please complete the on-line application at [www.hr.arizona.edu](http://www.hr.arizona.edu) (Job#32184); attach a Curriculum Vitae, a statement of experience and research interests, and the names of three references. For additional information, contact Ms. Debra Wilson at the above address, or by email to [dwilson@as.arizona.edu](mailto:dwilson@as.arizona.edu) The University of Arizona is an EEO/AA Employer-M/W/D/V.

**No. 21601****Postdoctoral position in Computational Astrophysics****SAINT MARY'S UNIVERSITY****Tel: (902)420-5105****URL1: <http://www.ica.smu.ca>****Email Submission Address: [jadams@ap.smu.ca](mailto:jadams@ap.smu.ca)****Email Inquiries: [jadams@ap.smu.ca](mailto:jadams@ap.smu.ca)*****Attention: Ms. Julee Adams, Assistant to the Director***

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Applications are solicited for postdoctoral or research associate positions in the Institute for Computational Astrophysics (ICA). Two openings are expected, subject to availability of funding. Any appointment would initially be for two years with possible renewals for a total of up to five. The successful candidate will hold a Ph.D. in astronomy, astrophysics, or physics, and will be free to pursue his or her own research agenda in any area of computational astrophysics. Teaching opportunities for additional remuneration may also be made available if desired.

The ICA has five full-time faculty members including two Canada Research Chairs (CRCs). There are also two postdoctoral and three graduate student members. Current areas of ICA research and interests include stellar structure, evolution, pulsation, and hydrodynamics; MHD outflows and collapse; non-LTE stellar atmospheres; and planetary formation and dynamics. A common theme for all areas is complex and often multi-dimensional numerical simulations.

The ICA operates a 48 node Beowulf cluster and a ten processor Sun Enterprise 4500 for the research use of its members in addition to individual workstations. The ICA plays a major role in ACEnet, the regional academic computing consortium for Atlantic Canada (see [www.ace-net.ca](http://www.ace-net.ca)), and will have access to all its facilities and personnel resources as they become available over the next few months. This will include significant visualization capabilities including a data cave. Arrangements can be made for access to other high performance computers in Canada as needed.

Applicants should submit curriculum vitae, list of publications, statement of research interests, and have three letters of reference sent to the above address by 31 March 2005. The starting date is at the discretion of the candidate and the ICA candidates are encouraged to suggest an

approximate starting date. While this advertisement is directed in the first instance to Canadian citizens and permanent residents, all qualified candidates are strongly encouraged to apply. Saint Mary's University is committed to the principles of employment equity.

**No. 21603****Postdoctoral Fellowships and Studentships: JETSET Research Training Network  
JETSET RTN - DUBLIN INSTITUTE FOR ADVANCED STUDIES****5 Merrion Square****Ireland****Tel: +353-1-6621333****FAX: +353-1-6621477****URL1: <http://www.jetsets.org>****(JETSET RTN website)****Email Submission Address: [eflood@cp.dias.ie](mailto:eflood@cp.dias.ie)****Email Inquiries: [eflood@cp.dias.ie](mailto:eflood@cp.dias.ie)*****Attention: Eileen Flood***

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Applications are invited for 11 PhD Studentships and 6 Postdoctoral Fellowships in the study of plasma jets concentrating on understanding outflows from young stars. As part of its current Marie Curie Research Training Network (RTN) programme, the European Commission has provided four years of funding for a new network called JETSET. It will bring together researchers working on observations, theoretical and computational modelling, laboratory experiments, and Grid technology and it is centred on plasma jet studies, with a focus on outflows from young stars. The network links the following eleven institutions:

1. Dublin Institute for Advanced Studies, Ireland 2. Università degli Studi di Torino, Italy 3. Universite Joseph Fourier, Grenoble, France 4. Institute of Accelerating Systems and Applications, Athens, Greece 5. Observatoire de Paris, France 6. Osservatorio Astronomico di Roma, Italy 7. Osservatorio Astrofisico di Arcetri, Florence, Italy 8. Thüringer Landessternwarte, Tautenburg, Germany 9. Centro de Astrofisica da Universidade do Porto, Portugal 10. Landessternwarte Heidelberg, Germany 11. Imperial College of Science, Technology and Medicine, London, UK

Posts (PF=Postdoctoral Fellowships, and Studentships) will be available in the following areas:

1: Models of MHD Jets in Young Stars: 2 PFs in Athens and Grenoble, 2 Studentships in Porto and Turin 2: The Observed Structure and Propagation of Stellar Jets: 1 PF in Florence and 3 Studentships in Turin, Porto and Grenoble 3: The Molecular Counterparts and Effects of Jets on their Environment: 1 PF in Tautenburg and 2 Studentships in Rome 4: The Structure and Propagation of Laboratory Jets: 2 Studentships in London 5: Large Numerical Simulations of Jets using Grid Technology: 1 PF in Dublin and 2 Studentships in Heidelberg 6: Trans-Disciplinary Approach: 1 PF in Dublin

Individual deadlines for applications are posted on the JETSET website where further details about the positions, application procedures and restrictions can be found. All candidates will be required to submit a curriculum vitae, a short research proposal (not for studentships) and three letters of reference. JETSET is committed to equal opportunity/affirmative action. Women and members of minorities are encouraged to apply.

**No. 21604****Postdoctoral Opportunity in Numerical Astrophysics****LAWRENCE LIVERMORE NATIONAL LABORATORY**

Tel:

URL1: <http://www.llnl.gov/llnl/education/postdocs.jsp>***Attention: Please visit web site to apply, <http://jobs.llnl.gov>***

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Postdoctoral Opportunity in Numerical Astrophysics

Lawrence Livermore National Laboratory

Livermore, CA

The Physics and Advanced Technologies Directorate/V Division at Lawrence Livermore National Laboratory seeks a qualified postdoctoral candidate to develop computer models of white dwarf, neutron star, and black hole binaries. The successful candidate will work with Christopher Mauche and Duane Liedahl at LLNL and collaborators at the University of Chicago and the University of Illinois to develop hydrodynamic models of the accretion flows and winds of such binaries, with the aim of producing detailed theoretical spectra that can be tested against observational data, especially those of Chandra, XMM-Newton, and Astro-E2. A recent Ph.D. in Physics or Astrophysics, with expertise in computational astrophysical fluid dynamics and experience in one or more of the following areas, is desired: X-ray astronomy, X-ray spectroscopy, radiative transfer, plasma emission models.

Initial appointment will be for one year with the possibility of renewal for up to a maximum of three years. For more information on the Post Doctoral Program at Lawrence Livermore National Laboratory, please visit our web site at:  
<http://www.llnl.gov/llnl/education/postdocs.jsp> .

LLNL offers a challenging environment and a competitive salary/benefits package. To view and apply for this job, go to <http://jobs.llnl.gov> , Advanced Search feature and enter the AIAH215PT source code. LLNL is operated by the University of California for the Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

Lawrence Livermore National Laboratory

<http://jobs.llnl.gov>**No. 21605****Postdoctoral Research in Clusters of Galaxies****MICHIGAN STATE UNIVERSITY****Physics & Astronomy Dept.****East Lansing, MI 48824-2320****USA****Tel: 517 355 9200 x2418****FAX: 517 353 4500****Email Submission Address: [donahue@pa.msu.edu](mailto:donahue@pa.msu.edu)****Email Inquiries: [donahue@pa.msu.edu](mailto:donahue@pa.msu.edu)**

***Attention: Megan Donahue, Associate Professor***

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Applications are invited for a postdoctoral research position in X-ray cluster astronomy at Michigan State University to work in collaboration with Dr. Megan Donahue and Dr. Mark Voit in the Department of Physics and Astronomy. Candidates must hold a Ph.D. degree in Physics or Astrophysics and should have expertise and interest in X-ray astronomy and clusters of galaxies. The successful candidate will likely work with data and simulations, assist in guiding students, and will develop research proposals. The position is initially for one year, with extensions of up to three years. The proposed start date of Sept. 2005 is negotiable.

Applicants should send a curriculum vitae, a publication list, and a cover letter highlighting relevant interests and experience, and arrange to have three letters of recommendation sent to the above address. Applications will be accepted until the position is filled. Complete applications should be received by March 15, 2004 to ensure full consideration. Women and minorities are encouraged to apply. MSU is an Affirmative Action/Equal Opportunity Institution

**No. 21606**

**Postdoctoral Scholar, Detector Development Lab  
UNIVERSITY OF CALIFORNIA, SANTA CRUZ  
UCO/Lick Observatory  
1156 High Street  
Santa Cruz, CA 95064  
USA**

**Tel: 831.459.2991**

**FAX: 831.459.5244**

**URL1: <http://www.ucolick.org>**

**Email Submission Address: [director@ucolick.org](mailto:director@ucolick.org)**

***Attention: Joseph Miller, Director***

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UNIVERSITY OF CALIFORNIA, SANTA CRUZ UCO/LICK OBSERVATORY  
POSTDOCTORAL SCHOLAR

The University of California Observatories/Lick Observatory invites applications for a postgraduate researcher position in the Observatory's CCD detector development group. Contingent on the availability of funding, the appointment will be for two years beginning January 1, 2005 (start date negotiable). The appointment may be extended to three years if funds allow. Applicants should have demonstrated experience in one or more of these areas: astronomical instrumentation, CCD detector development, software development, and optical design. The appointee will contribute to all aspects of the detector lab's CCD testing programs. The CCD laboratory is currently working with Lawrence Berkeley National Laboratory (high resistivity CCDs), Lincoln National Laboratory (advanced adaptive optics CCDs), and other CCD manufacturers to develop some of the world's most advanced CCD detectors. The laboratory also supports the CCD instruments at UCO/Lick and Keck Observatories. We anticipate working on CCD systems for the 30-meter California Extremely Large Telescope and other major projects. The laboratory also supports the CCD operations at Lick Observatory.

RANK: Postdoctoral Scholar

SALARY: \$43,908 - \$48,168 annually

MINIMUM QUALIFICATIONS: PhD or equivalent in Observational Astronomy or Astrophysics or a closely related field, experience developing astronomical instrumentation hardware and/or software, including work with CCD detectors, digital and analog electronics used in low-noise signal processing systems, C programming, and the Unix operating system. Must be able to work independently yet collegially in a team environment. The ability to produce high quality documentation is important. Ability to travel to high altitude observatories is required.

TERM OF APPOINTMENT: Two years, with possible extension to three years, contingent on performance and availability of funding.

POSITION START DATE: January 1, 2005 (negotiable).

APPLICATION MATERIALS: Applicants should send a vita, publication list, brief summary of relevant research experience, brief statement of research interests, and the names of three referees who have been asked by the applicant to submit letters of recommendation (all letters will be treated as confidential, please direct your references to UCSC's confidentiality statement at <http://www2.ucsc.edu/ahr/policies/confstm.htm> ) to:

SUBMISSION ADDRESS: Postgraduate Researcher Recruitment c/o UCO/Lick, Office of the Director 1156 High Street University of California Santa Cruz, CA 95064 Please refer to provision # T04-44 in your reply.

CLOSING DATE: This position is open until filled. Applications will first be considered on March 15, 2004.

UCSC IS AN AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER  
WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY

Inquiries regarding the University's equal employment opportunity policies may be directed to: Equal Employment Opportunity/Affirmative Action Office at, University of California, Santa Cruz, CA 95064; (831) 459-2686. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986.

If you need assistance due to a disability please contact the Academic Human Resources Office at 350 McHenry Library (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Human Resources at (831) 459-4300.

VISIT THE AHR WEB SITE AT <http://www2.ucsc.edu/ahr/employment/>

**No. 21607**  
**Postdoctoral Research Associate with VERITAS**  
**PURDUE UNIVERSITY**  
**Department of Physics**  
**525 Northwestern Ave.**

**West Lafayette, IN 47907-2036**  
**USA**  
**Tel: 765.494.3001**  
**FAX: 765.496.2298**  
**Email Submission Address: [finley@purdue.edu](mailto:finley@purdue.edu)**  
**Email Inquiries: [finley@purdue.edu](mailto:finley@purdue.edu)**

***Attention: John P. Finley, Professor***

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Purdue University - Postdoctoral Research Associate

Applications are invited for a postdoctoral position to work with the VERITAS high energy astrophysics group in the Department of Physics at Purdue University. VERITAS is an array of ground based gamma-ray telescopes currently under construction in the Horseshoe Canyon on Kitt Peak in southern Arizona. The array will be completed in fall 2006 and the successful applicant is to be stationed in Arizona and will be expected to participate in the construction, commissioning and operation of the array. The Purdue group has significant responsibilities for the optics, the focal plane detectors, and the acquisition and analysis software. Scientifically the group has been pursuing the physics of compact objects, both Galactic and extra-galactic, and has carried out multiwavelength campaigns utilizing data from the radio through the X-ray energy domains in coordination with the gamma-ray. The successful applicant will be strongly encouraged to pursue his/her science interests.

The postdoctoral fellowship is for two years, with the possibility of renewal for an additional year contingent on performance and continued funding. Candidates must hold a Ph.D. or equivalent in physics or astronomy. The starting date is negotiable. To apply, please send a vita, bibliography, statement of research, and have three letters of recommendation sent to: Professor John P. Finley, Department of Physics, Purdue University, 525 Northwestern Avenue, West Lafayette, IN 47907-2036 or submit electronically to [finley@purdue.edu](mailto:finley@purdue.edu). The position will remain open until filled, although completed applications will be evaluated as soon as they are received. Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer and is committed to building a diverse faculty of excellence. Women and minorities are especially encouraged to apply.

## New Jobs This Month

**No. 21608**  
**Postdoctoral Fellowship**  
**INSTITUTO DE ASTRONOMIA**  
**Ciudad Universitaria**  
**AP 70-264**  
**Mexico City, D.F. 04510**  
**Mexico**  
**Tel: 52-55-56244903**  
**FAX: 52-55-56160653**  
**Email Submission Address: [juanita@astrocu.unam.mx](mailto:juanita@astrocu.unam.mx)**  
**Email Inquiries: [juanita@astrocu.unam.mx](mailto:juanita@astrocu.unam.mx)**

***Attention: Juana Orta***

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The Universidad Nacional Autonoma de Mexico (UNAM) invites researchers to submit applications for postdoctoral fellowships in astrophysics. The appointment is for one year with a possible extension for a second. The term will begin 1st September 2005. Fellows will work either in the Institute of Astronomy either in Mexico City or in the city of Ensenada (Baja California). Fellows are expected to carry out original research in any area of astrophysics, and collaboration with staff, faculty or students at the host institution is especially encouraged. The principal selection criteria will be outstanding research accomplishments and promise of future achievement. The Fellow will have access to all of the resources and facilities of the National Astronomical Observatory. In particular, the Institute operates the San Pedro Martir Observatory near Ensenada, which includes a 2.1-meter, a 1.5-meter and an 84-cm telescope, equipped with modern instrumentation for optical and near- and mid-infrared imaging and spectroscopy. The Institute is also a partner in the GTC (Gran Telescopio Canario) Consortium. The fellowship provides some support for observing, traveling and publishing. Our observing facilities will be accessible for the entire duration of the fellowship. By the beginning of the appointment, applicants should have a PhD in Astronomy or related fields. Knowledge of the English and/or Spanish language is required. Salary and benefits are compatible with international standards. Applicants should send a curriculum vitae, bibliography, and research plan, and arrange for three letters of recommendation to be sent to the Institute of Astronomy by May 20, 2005. Preference for an appointment in Mexico City or Ensenada should be stated in the cover letter. All interested applicants should contact Juana Orta ([juanita@astroscu.unam.mx](mailto:juanita@astroscu.unam.mx)) as soon as possible for additional information.

**No. 21609****Postdoctoral Associate in High-resolution X-ray Astrophysics****MASSACHUSETTS INSTITUTE OF TECHNOLOGY****Room NE80-6025****70 Vassar St.****Cambridge, MA 02139****USA****Tel: 617-253-7244****FAX: 617-253-8084****URL1: <http://space.mit.edu/HETG>****(HETG web page)****Email Inquiries: [dd@space.mit.edu](mailto:dd@space.mit.edu)*****Attention: Daniel Dewey, Research Scientist***

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The MIT Kavli Institute (formerly the CSR) has a Postdoctoral Associate position beginning September 2005 in the High Energy Transmission Grating (HETG) group led by Prof. Claude Canizares. Members of the HETG group regularly collaborate with staff of the MIT Chandra X-ray Center (CXC/MIT) and the Advanced CCD Imaging Spectrometer (ACIS) groups at MIT.

The HETG group's X-ray astrophysics activities currently cover a broad range of objects including hot and cool stars, X-ray binaries, supernova remnants, AGN and jets, and interstellar and intergalactic material. This object diversity is united by the threads of high-resolution spectroscopy with the HETG and X-ray plasma diagnostics.

The primary responsibility is to contribute to a subset of the group's efforts by carrying out

forefront research using and/or related to the HETG and high-resolution spectroscopy. For example, the candidate may become involved in data analysis and scientific understanding of one or more of our HETGS guaranteed time observations (GTO) in the above areas.

The candidate should have strengths in some one or more of the following: experience with X-ray astronomical data analysis methods and analysis packages (ISIS, CIAO, XSPEC), fluency in a scientific programming language (IDL, C, etc.), an understanding of astronomical high-resolution spectroscopy (X-ray, UV, optical), and/or familiarity with plasma emission and absorption physics in the X-ray. The position requires a Ph.D. in Astronomy, Physics, or closely related field.

Qualified applicants should send their resumes and a statement of research interests, and arrange for three letters of reference to be sent to Dr. Daniel Dewey at the above address. Applications will be reviewed and accepted through 4 April 2005. AAE/EOE.

**No. 21610**

**Interdisciplinary Tenure-Track Professorship in Astrobiology**

**STEWART OBSERVATORY / UNIVERSITY OF ARIZONA**

**933 N. Cherry Ave Bldg 65**

**Tucson, Arizona 85721**

**USA**

**Tel: 520-626-8792**

**FAX: 520-621-5554**

**URL1: <http://www.uacarerrtrack.com>**

**(UA HR website)**

**URL2: <http://www.laplace.arizona.edu>**

**(Astrobiology Center)**

**URL3: <http://www.as.arizona.edu/steward>**

**(Steward Observatory)**

**Email Submission Address: [cathi@as.arizona.edu](mailto:cathi@as.arizona.edu)**

**Email Inquiries: [Cathi@as.arizona.edu](mailto:Cathi@as.arizona.edu)**

***Attention: Dr. Anna Spitz, Project Manager***

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The University of Arizona (UA) seeks applicants for a tenure-track faculty position in astrobiology. UA, with NOAO, a member of NASA's Astrobiology Institute, founded the interdisciplinary Life And Planets Astrobiology Center (LAPLACE) which conducts interdisciplinary research across UA departments. For more information visit our website ([www.laplace.arizona.edu](http://www.laplace.arizona.edu)). All applicants with research interests in astrobiology will be considered; we are particularly interested in applicants with expertise in • Theoretical Astrochemistry and the interstellar medium and/or presolar material • Theoretical and/or Computational studies of planet formation and dynamical evolution • Sub-mm/radio observational studies of molecular clouds and star formation. Appointments will be in one or more Departments within the College of Science. Minimum qualifications: Ph.D. in Astronomy, Chemistry, Physics, Planetary Science or an astrobiology-related field. Interested applicants must mail a statement of interest, CV (including publication list and description of current and proposed research) and the names of three references to: Dr. Anna Spitz, Steward Observatory, University of Arizona, 933 N. Cherry Avenue, Tucson, AZ 85721. Applicants must also submit an on-line application (required fields only) for job #31575 at the UA website,

www.uacareertrack.com . Applications will be reviewed starting January 15, 2004, and accepted until the position is filled. Applicants are considered without regard to citizenship or national origin. UA is an EEO/AA-M/W/D/V Employer.

**No. 21612****Research Assistant Professor  
UNIVERSITY OF WASHINGTON****Department of Astronomy****Box 351580****Seattle, WA 98195****USA****Tel: 206-543-2888****FAX: 206-685-0403****Email Submission Address: [astrojob@astro.washington.edu](mailto:astrojob@astro.washington.edu)****Email Inquiries: [trq@astro.washington.edu](mailto:trq@astro.washington.edu)*****Attention: Prof. Thomas Quinn, Chair, Search Committee***

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Applications are invited for a Research Assistant Professor position in the Astronomy Department at the University of Washington to work on computational cosmology in general and modeling galaxy clusters and galaxy formation in particular. (The position of Research Assistant Professor is a long-term position similar to that of Assistant Professor, but with special emphasis on research and no assurance of state funding. Promotions are tied to professional accomplishments and follow the same cadence as promotions for tenure-track faculty.) The successful candidate will be expected to conduct independent research involving large numerical simulations on parallel computers and to secure grant support sufficient to cover the position salary, benefits, and research expenses. S/he is expected to collaborate with other faculty of the U.W. computational astrophysics group and with members of the "N-Body Shop" and their international collaborators. The candidate is also expected to supervise research projects of postdocs and advanced graduate students. Opportunities to participate in the instructional programs of the department are likely. Interdisciplinary research is strongly encouraged with people in other departments and programs on campus, including Physics, Applied Mathematics, Atmospheric Sciences and Computer Science and Engineering.

Applicants must have a Ph.D. in astronomy, physics, or a closely related field as well as a minimum of three years of prior post-Ph.D. research experience. To apply, please submit a CV which includes your qualifications, a statement of research interests and career goals, a list of publications, and the names and email addresses of three qualified people who will send a letter of reference directly to Thomas Quinn at the above address. Documents will be accepted electronically in pdf format sent to [astrojob@astro.washington.edu](mailto:astrojob@astro.washington.edu), with subject line "computational cosmology application, (your name)". Materials received before May 1, 2005 will receive full consideration.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity/Affirmative Action employer.

**No. 21613****Lecturer for Astronomy and Astrophysics**

**UNIVERSITY OF TEXAS AT ARLINGTON**  
**502 Yates St., 108 Science Hall**  
**Box 19059**  
**Arlington, TX 76019**  
**USA**  
**Tel: 817-272-2266**  
**FAX: 817-272-3637**  
**Email Submission Address: [cuntz@uta.edu](mailto:cuntz@uta.edu)**  
**Email Inquiries: [cuntz@uta.edu](mailto:cuntz@uta.edu)**

***Attention: Manfred Cuntz, Asst. Professor***

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Non-Tenure Track Lecturer Position Department of Physics The University of Texas at Arlington Science Hall Box 19059 Arlington, TX 76019 USA Attention: Manfred Cuntz, Chair of the Search Committee

Tel. 817-272-2266 FAX: 817-272-3637 URL: <http://www.uta.edu/physics>

The Department of Physics at the University of Texas at Arlington (UTA) is seeking applications for a non-tenure track full-time Lecturer position starting in September 1, 2005. The selected candidate will teach undergraduate Astronomy and Astrophysics courses and labs each semester. A Ph.D. in Astronomy or Physics is highly preferred, but candidates with other degrees and exceptional qualification will also be considered. Experience in teaching undergraduate introductory level courses is highly desirable. The Physics & Astronomy Department is moving into a state-of-the-art science building hosting the largest planetarium in the Dallas-Fort Worth Metroplex. Further information concerning the department can be found at <http://www.uta.edu/physics>. Candidates should submit a letter of application, CV, statement of purpose, and at least three references to Dr. M. Cuntz, Chair of the Search Committee. Review of applications will begin on April 1, 2005 and continue until the position is filled. UTA is an Equal Opportunity and Affirmative Action Employer.

**No. 21614**  
**Mc Kinney Research Associate in Observational Astronomy and Instrumentation**  
**UNIVERSITY OF WISCONSIN - MADISON**  
**475 N Charter Street**  
**Madison, Wisconsin 53706**  
**USA**  
**Tel: 608/262-3071**  
**FAX: 608/263-6386**  
**URL1: <http://www.astro.wisc.edu>**  
**(Astronomy Department Web Site UW-Madison)**

***Attention: Andrew Sheinis, Assistant Professor***

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McKinney Research Associate in Observational Astronomy and Instrumentation

UNIVERSITY OF WISCONSIN-MADISON 5534 Sterling Hall, 475 N. Charter Street, Madison, WI 53706-1582 USA Tel: 608-262-3071

Applications are invited for a postdoctoral research associate in Observational Astronomy and Instrumentation at the UW-Madison Department of Astronomy. Contingent upon the availability of funding, the position will begin September 2005 for an initial period of two years with possible extension for a third year. The successful candidate will hold a PhD in astronomy, astrophysics or physics and have experience in Instrument development (optics, mechanics, electronics, detectors or cryogenic systems) and observational astronomy (imaging or spectroscopy). Experience and interest in NIR observations/ instrumentation is a plus.

The successful applicant will work in the development optical and NIR instrumentation for the Southern African Large Telescope (SALT), including the NIR upgrade to the Prime Focus Imaging spectrograph (PFIS). Development will take place at the Space Astronomy Lab at UW Madison. UW Madison is a major partner in the SALT consortium receiving approximately 17% observing time.

Applications should include a bibliography, curriculum vitae, a brief summary of planned research, and at least three letters of reference. Application materials should be sent to:

Professor Andrew Sheinis, 5534 Sterling Hall, 475 N. Charter Street, Madison, WI 53706-1582. [www.astro.wisc.edu](http://www.astro.wisc.edu)

Deadline for receiving applications is March 31, 2005.

Requests for confidentiality must be received in writing; confidentiality cannot be assured for finalists

The University of Wisconsin-Madison is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply.

**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 Astronomia y Astrofisica)**

**Email Submission Address: [jobs@astro.puc.cl](mailto:jobs@astro.puc.cl)**

**Email Inquiries: [linfante@astro.puc.cl](mailto:linfante@astro.puc.cl)**

***Attention: Leopoldo Infante, Professor***

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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 FONDAP 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](mailto:rmyers@perimeterinstitute.ca)**

**Email Inquiries: [rmyers@perimeterinstitute.ca](mailto:rmyers@perimeterinstitute.ca)**

***Attention: Rob Myers, Chair, Search Committee***

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## 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](http://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](mailto: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. 21635**  
**Faculty Position in Space Physics**  
**UNIVERSITY OF TEXAS AT ARLINGTON**  
**502 Yates St., 108 Science Hall**  
**Box 19059**  
**Arlington, TX 76019**  
**USA**  
**Tel: 817-272-2266**  
**FAX: 817-272-3637**  
**Email Submission Address: [rubins@uta.edu](mailto:rubins@uta.edu)**  
**Email Inquiries: [rubins@uta.edu](mailto:rubins@uta.edu)**

***Attention: Roy Rubins, Professor***

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The Physics Department of the University of Texas at Arlington (UTA) is seeking qualified candidates at the assistant, associate or full professor level for a tenure-track/tenure faculty position in space physics. For senior candidates, appointment at the associate or full professor level would carry tenure. Strong preference will be given to applicants with research interests in magnetosphere-ionosphere physics. A Ph.D. in physics or a related field is required. The successful applicant will be expected to engage in a vigorous research program, have the potential for attracting external funding, supervise Ph.D. and MS students, and have a commitment to quality teaching (both undergraduate and graduate). The target starting date is

September 1, 2005.

UTA is a Carnegie I university with more than 25,000 students. Its location in the heart of the Dallas-Fort Worth (DFW) metropolitan area provides excellent opportunities for collaboration with high-technology industries and neighboring universities, and the cultural benefits of the DFW Metroplex. The UTA Department of Physics has 17 tenured and tenure track faculty members whose research activities include experimental and theoretical condensed-matter physics, experimental high-energy physics, theoretical astrophysics, and theoretical space physics - see <http://www.uta.edu/physics/>. In Spring 2006, the department will move to the new Physics and Chemistry Building, which is now under construction. This three-story, 123,000 sq ft building will have excellent research and instructional facilities and will also host a new state-of-the-art planetarium with a sixty-foot diameter dome - see [http://cos.uta.edu/Science\\_Bldg/SOUTHWEST1.jpg](http://cos.uta.edu/Science_Bldg/SOUTHWEST1.jpg) .

Each candidate should forward a letter of application, curriculum vita, bibliography, statement of research and teaching plans, and the names of at least three references to: Dr. R. S. Rubins, Chair, Space Physics Search Committee, Department of Physics, The University of Texas at Arlington, Box 19059, Arlington, Texas 76019. Review of applications will begin February 15, 2005, and will continue until the position is filled. The University of Texas at Arlington is an Equal Employment Opportunity and Affirmative Action Employer.

**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](mailto:jcm@atmos.ucla.edu)**

***Attention: James McWilliams, Professor***

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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](mailto: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***

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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](http://www.nrao.edu). The NRAO is an equal opportunity employer (M/F/H/V).

**No. 21640**

**Postdoctoral Position in Gravitational Wave Astronpysics at U. Texas at Brownsville  
UNIVERSITY OF TEXAS AT BROWNSVILLE**

**80 Fort Brown**

**Brownsville, TX 78520**

**USA**

**Tel: (956)574-6690**

**FAX: (956)574-6726**

**URL1: <http://www.phys.utb.edu>**

**(Physics department web cite)**

**URL2: <http://cgwa.phys.utb.edu>**

**(The Center for Gravitational Wave Astron)**

**Email Submission Address: [mario@phys.utb.edu](mailto:mario@phys.utb.edu)**

**Email Inquiries: [mario@phys.utb.edu](mailto:mario@phys.utb.edu)**

***Attention: Mario Diaz, Professor***

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The Center for Gravitational Wave Astronomy at the University of Texas at Brownsville (UTB) invites applications for a postdoctoral position in any area of gravitational wave science.

The position is for one year, renewable for a one-year period, contingent upon continued financial support and satisfactory performance. The starting date for the position is Fall 2005 or earlier. We will be reviewing applications from late February 2005 until the position is filled.

The center consists of seven faculty members (Manuela Campanelli, Mario Diaz, Fredrick Jenet, Carlos Lousto, Soumya Mohanty, Soma Mukherjee, and Richard Price), five post-docs, and a dozen graduate students. A new faculty member, in the area of gravitational wave astrophysics, will be added to the group in the coming year. Current activities of the center include: i) development of tools for data analysis for the LIGO project, ii) LISA data analysis, iii) the 'Lazarus project' (an approach to binary black hole merger simulations that combines perturbation methods with full numerical relativity), iv) the computation of radiation reaction effects in binary systems with small mass ratio using perturbative techniques, v) analytic-numerical methods for modeling gravitational wave sources, vi) detection of gravitational waves through pulsar timing methods and vii) grid computing.

The group is currently a member of the LIGO Scientific Collaboration as a LIGO I institution. We are also charter members of the GriPhyN and iVDGL projects, two large scale NSF funded projects that will form the world's first global 'computational grid', providing a Petabyte scale computational resource for major scientific experiments in physics, astronomy, biology and engineering. The group has excellent computational facilities including a network of LINUX workstations, a new Beowulf cluster with 44 dual-processor nodes and a 96-node Beowulf cluster, which has been grid-enabled (with VDT 1.2). (See [www.phys.utb.edu/beowulf](http://www.phys.utb.edu/beowulf) and [cgwa.phys.utb.edu/](http://cgwa.phys.utb.edu/) for more details.) Applications should include a cover letter, a brief statement of research interests, and a curriculum vitae. The applicant should also arrange for at least three letters of recommendation to be sent directly to the above address.

The University of Texas at Brownsville is an Affirmative Action/Equal Employment Opportunity Employer, and all qualified applicants receive equal consideration in the selection process. We encourage applicants from members of traditionally under represented groups protected under the Title VII of the Civil Rights Act, Vietnam era veterans, and persons with physical disabilities.

**No. 21642**

**Science Education Specialist**

**NATIONAL OPTICAL ASTRONOMY OBSERVATORY**

**P.O. Box 26732**

**Tucson, AZ 85726-6732**  
**USA**  
**Tel: 520-318-8100**  
**FAX: 520-318-8456**  
**Email Submission Address: [hrnoao@noao.edu](mailto:hrnoao@noao.edu)**  
**Email Inquiries: [hrnoao@noao.edu](mailto:hrnoao@noao.edu)**

***Attention: Science Education Specialist #698, Human Resources Manager***

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Science Education Specialist Tucson Arizona

The National Optical Astronomy Observatory seeks a Science Education Specialist to play an active role in the Public Affairs and Educational Outreach Department at NOAO Tucson.

This is a unique opportunity to work in a number of high-visibility, high-priority programs. NOAO provides unique science programs for a variety of formal and informal audiences, with a strong emphasis on educator professional development and research experiences for teachers. This position will provide opportunities for professional growth as NOAO maintains an active national and international presence in science education. Current NOAO programs which the position will work with directly include: "Hands On Optics: Making an Impact with Light" (informal science education), "Teacher Leaders in Research Based Science Education" (teacher professional development and research experiences), and "Investigating Astronomy" (instructional materials development). The Science Education Specialist will help to design and maintain NOAO outreach, professional development, and curriculum development programs, and also act as liaison between NOAO scientists and science education educators.

**EDUCATION/EXPERIENCE/SKILLS/ABILITIES:** · Bachelor's degree in a physical science (Physics or Astronomy preferred) AND ten years of formal/informal science education leadership, or science outreach formal/informal education outreach experience; OR a Master's degree with five years of formal/informal science education program development and leadership experience · Experience with science data and investigations and with web-based technologies · Ability to assist in testing new educational products and programs · Ability to effectively communicate with a wide variety of people · Comprehensive knowledge of K-12 science education standards and practices · Skill in coordinating and administering science education programs · Ability to translate and communicate astronomy research to a lay audience · Advanced college-level knowledge of astronomical research, areas of current research emphasis, astrophysical techniques, and astronomical instrumentation · Ability to interact with a wide variety of age groups

This position is grant-funded and subject to continued availability of funding.

Send electronic resume to [hrnoao@noao.edu](mailto:hrnoao@noao.edu), in Subject Line specify Science Education Specialist, #698 or mail your resume to:

ATTN: Science Education Specialist, #698. Human Resources Manager National Optical Astronomy Observatory P.O. Box 26732 Tucson, Arizona 85726-6732

FAX: 520-318-8456

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. 21643****Postdoctoral Researcher/Sr. Postdoctoral Researcher (Relativistic Hydrodynamics)****LOUISIANA STATE UNIVERSITY****Department of Physics & Astronomy****202 Nicholson Hall****Baton Rouge, Louisiana 70803-4001****USA****Tel:****Email Submission Address: [tohline@lsu.edu](mailto:tohline@lsu.edu)****Email Inquiries: [tohline@lsu.edu](mailto:tohline@lsu.edu)*****Attention: Joel E. Tohline, Professor***

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POSTDOCTORAL RESEARCHER/SENIOR POSTDOCTORAL RESEARCHER (Relativistic Hydrodynamics/one or more positions) Department of Physics and Astronomy Applications are invited for one or more postdoctoral or senior postdoctoral positions in the astrophysics group at Louisiana State University to begin in the summer or fall of 2005. The successful candidate (s) will be expected to work closely with J.E. Tohline and L. Lehner, in collaboration with E. Hirschmann (BYU) and S. Liebling (Long Island Univ.), on the development of numerical algorithms that will permit accurate simulations of hydrodynamical flows in strong gravitational fields, but may spend up to 50% of his/her time exploring other research problems that are relevant to NSF's AST, PHY, or ITR programs. We are especially interested in modeling mass-transfer, accretion flows, tidal disruption, and merger in close compact (white dwarf, neutron star and black hole) binary star systems and in active galactic nuclei. Developed relativistic hydrodynamic algorithms will include adaptive mesh refinement and load-balancing techniques for efficient execution on massively parallel computer architectures, such as LSU's 1,024-processor Beowulf-class supercomputer. LSU has active research programs in observational and theoretical astrophysics (Clayton, Frank, Landolt, Schaefer, Tohline) and in experimental and numerical relativity (Giame, González, Lehner, Pullin, Seidel), and its campus is located only 30 miles from the NSF's LIGO-Livingston facility.

Required Qualifications: (Both Levels) Ph.D. or equivalent degree in astronomy, physics, or a related field; (Senior Postdoctoral Researcher) three years of related experience. Additional Qualifications Desired: experience conducting hydrodynamical simulations of astrophysical flows on parallel computing platforms. Salary is commensurate with qualifications and experience. Application deadline is March 15, 2005, or until candidate is selected. Please send C.V. (including e-mail address) and the names of three references to: Professor Joel E. Tohline: Electronically (preferred), [tohline@lsu.edu](mailto:tohline@lsu.edu); or via standard mail to: 202 Nicholson Hall, Department of Physics and Astronomy, Louisiana State University, Ref: Log #0267, Baton Rouge, LA 70803-4001. LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

**No. 21644****1-2 postdoc positions in applied mathematics/computational astrophysics**

**CENTER OF MATHEMATICS FOR APPLICATIONS, UNIVERSITY OF OSLO**

Tel:

URL1: <http://www.cma.uio.no/openpositions/2005February.html>*(full announcement text with links)*Email Submission Address: [grete.andresen@matnat.uio.no](mailto:grete.andresen@matnat.uio.no)Email Inquiries: [ragnar.winther@cma.uio.no](mailto:ragnar.winther@cma.uio.no)***Attention: Grete Andresen ATT: 05/3761***

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The positions are available from May 1, 2005, but the start date may be delayed if necessary. The positions will be granted for a period of 2 years with a possibility for one additional year. The main vision of CMA is to create a national research centre in mathematics where top class scientists from different areas can work together with a joint perspective and common goals. The main focus is on mathematics motivated from applications, with emphasis on problems arising from modern scientific computing. The activity in the centre is built upon 4 different research areas: geometry, stochastic analysis, differential equations and applications in the physical sciences (mainly within astrophysics and computational quantum mechanics). The centre specifically focuses on research activities on the boundaries and intersections of these areas. Applicants will be evaluated and ranked with respect to the research plan of the centre. Whoever is employed must demonstrate their scientific competence within mathematics or a related applied area. Preference will be given to applicants with experience of computational problems within the relevant areas, or with experience in problems that combine aspects from two or more of the areas. If at least one qualified candidate applies, one position will be dedicated to the research field Differential Equations - astrophysics. We specifically seek a candidate with strong experience from PDEs who is interested in applications on MHD-modeling in astrophysics. Candidates with a PhD-degree in mathematics or astrophysics are both relevant, but applicants with an astrophysical PhD-degree must provide documentation of a strong background in mathematics. For the possible second position, no such preferences are given, except those of the full research plan itself.

**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](mailto:hanany@physics.umn.edu)***Attention: Shaul Hanany, Associate Professor***

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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. 21653**

**Research Associate. EU Research and Training Network Gamma-Ray Bursts: an Enigma and a Tool**

**UNIVERSITY OF LEICESTER**

Tel:

URL1: <http://www.le.ac.uk/personnel/jobs/r1736a.html>

*(Details and application forms)*

**Attention: Personnel Office**

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The successful candidate will be expected to conduct a programme of research relevant to Gamma-Ray Burst astronomy. Leicester is host to the Swift Project UK X-ray Telescope team and also houses the UK Swift Data Center, whose staff are part of the X-ray and Observational Astronomy Group. In addition to the analysis of data from Swift, a substantial observing programme involves the analysis of data from many ground-based telescopes. The Theoretical Astrophysics Group benefits from substantial in-house computing resources and hosts the UK Astrophysics Fluids Facility (UKAFF).

Candidates should have, or be about to complete, a PhD and have a good background in observational or theoretical astrophysics. Applications will be considered until 2005 April 1. The post is funded until 2006 August 31. Candidates must be citizens of a European Union country or associated state, other than the U.K., and must not have worked in the U.K. for more than 12 out of the last 24 months.

Informal enquiries can be made to Dr Paul O'Brien (+44 (0)116 252 5203 or e-mail [pto@star.le.ac.uk](mailto:pto@star.le.ac.uk)).

**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**

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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](http://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](mailto:john.littleton@mail.wvu.edu)****Attention: John E. Littleton, Professor**

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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](mailto:sbyrne@wvu.edu). Review of applications will begin March 15, 2005. West Virginia University is an affirmative action, equal opportunity employer.

**No. 21657**

**Observational Astronomy Research Assistant Department of Physics and Astronomy  
The University of Wyoming Laramie, WY 822071 USA**

**UNIVERSITY OF WYOMING**

**Physics & Astronomy**

**Dept. 3905, 1000 E. University Ave.**

**Laramie, Wyoming 82071**

**United States**

**Tel: 307-766-5154**

**FAX: 307-766-2652**

**URL1: <http://physics.uwyo.edu>**

**Email Submission Address: [ddale@uwyo.edu](mailto:ddale@uwyo.edu)**

**Email Inquiries: [ddale@uwyo.edu](mailto:ddale@uwyo.edu)**

***Attention: Daniel Dale***

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A research assistant in observational cosmology is sought. Applicants should have a Masters or Bachelors degree in astronomy or physics with programming experience, ideally using astronomical data reduction packages such as IRAF. The position may be renewed for a second year.

The position will entail frequent observing at the University of Wyoming's 2.3 m telescope and the processing of the data obtained. The main research project is a large, narrowband imaging survey for star-forming galaxies spanning the latter half of the age of the Universe. The overall goal of the project is to robustly parametrize the evolution of the cosmic star formation rate density over this timescale.

The University of Wyoming is an equal opportunity employer.

**No. 21658**

**Instrumentation, Postdoctoral position at MPIA  
MAX-PLANCK-SOCIETY  
Koenigstuhl 17  
Germany  
Tel: ++49 6221 528223  
FAX: ++49 6221 528373  
URL1: <http://www.mpia.de>  
URL2: <http://www.mpia.de/LINC>  
Email Submission Address: [herbst@mpia.de](mailto:herbst@mpia.de)  
Email Inquiries: [herbst@mpia.de](mailto:herbst@mpia.de)**

***Attention: Tom Herbst, Dr.***

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The Max Planck Institute for Astronomy (MPIA) is seeking an ambitious, highly-qualified postdoctoral appointee to participate in instrumentation development. The successful candidate should have a background in astrophysics with instrumentation development, or in experimental physics. The appointee will be expected to take a leading role in the construction, commissioning and use of LINC-NIRVANA, an imaging infrared interferometer for the twin 8-meter Large Binocular Telescope (LBT). The LBT will soon achieve first light, and MPIA astronomers will have access to more than thirty nights per year on this facility. See <http://www.mpia.de/LINC> for further information. In addition to the LBT, the MPIA has major ground-based instrumentation programs associated with the Very Large Telescope (VLT) on Paranal, the 2.2-m MPG telescope on La Silla, and the 1.2, 2.2 and 3.5 m telescopes on Calar Alto. There is also a very active group developing instrumentation for space astronomy missions, including Herschel, JWST, and Darwin. We recognize that instrumentation development requires significant investment of both resources and time. The postdoctoral position includes sufficient funds for publications, travel, etc., and the appointment will be for an initial period of three years, with yearly extensions thereafter to a maximum of five years. Science is also a priority, and a significant fraction of time will be available for individual research. Interested candidates should send application materials, including curriculum vita, the names of two references, and a brief statement of research interests to the address above. Evaluation of candidates will begin on april 2005, but later applications will be considered. Further information on the instrumentation and science interests of the MPIA community can be found at <http://www.mpia.de> The Max Planck Society is an equal opportunity employer. Applications from women and historically under-represented groups are particularly welcome.

**No. 21659**

**One post-doctoral position or two PhD positions in theoretical black-hole dynamics  
STERNWARTE, UNIVERSITY OF BONN**

**Auf dem Huegel 71**

**Germany**

**Tel: +49-228-736790**

**FAX: +49-228-733672**

**URL1: <http://www.astro.uni-bonn.de/~webstw/>**

**(Institute Homepage)**

**Email Submission Address: [holger@astro.uni-bonn.de](mailto:holger@astro.uni-bonn.de)**

**Email Inquiries: [holger@astro.uni-bonn.de](mailto:holger@astro.uni-bonn.de)**

***Attention: Holger Baumgardt, Dr.***

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## Post-doctoral position / PhD positions in theoretical black-hole dynamics

The Sternwarte of Bonn University invites applications for two PhD positions or one post-doctoral position to work with Dr. Holger Baumgardt and Prof. Dr. Pavel Kroupa on the formation and evolution of massive black holes in dense stellar systems by means of numerical simulations.

The Bonn Centre for Astrophysics includes the Sternwarte and is one of the major astrophysical research centers in Europe.

One PhD position will study the growth of intermediate-mass black holes in dense star clusters through runaway merging of stars, while the second position will follow the evolution of systems of black holes through emission of gravitational waves in the centres of star clusters and galaxies. Successful applicants should have interest in numerical algorithms and code development. The successful post-doctoral researcher would be expected to follow both lines of research.

The initial appointment is for two years with extensions possible up to 6 years. The salary is based upon the German federal public service scale (BAT-IIa/2 for PhD-students or BAT-IIa for postdoctoral researchers).

The positions include funds for travel and have access to a number of dedicated special-purpose supercomputers.

Applications should be received before March 31st, 2005, but later applications may be considered. The earliest starting date is May 1st, 2005. Applications including a CV, publication record, statement of research interests and two letters of recommendation should be sent to the above address.

The University of Bonn is an equal-opportunity employer and encourages applications from women, minorities and disabled persons.

### **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](mailto:epenteco@nsf.gov)**

**Email Inquiries: [efriel@nsf.gov](mailto:efriel@nsf.gov)**

***Attention: Eileen Friel, Executive Officer, AST***

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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](http://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. 21661**

**Postdoctoral Research Fellow in Radio Astronomy**

**UNIVERSITY OF TASMANIA**

**Private Bag 46**

**Hobart, TAS 7001**

**Australia**

**Tel:**

**FAX: +61-3-6226-2751**

**URL1: [http://www.admin.utas.edu.au/hr/pos\\_vacant/pd\\_detail.asp?Serial=2221](http://www.admin.utas.edu.au/hr/pos_vacant/pd_detail.asp?Serial=2221)**

**Email Inquiries: [John.Dickey@utas.edu.au](mailto:John.Dickey@utas.edu.au)**

***Attention: Director, Human Resources***

The radio astronomy group at the University of Tasmania invites applications for two postdoctoral fellowship positions to work with their observatories, which include the 26m Mt Pleasant radio telescope and the 30m Ceduna radio telescope. These facilities form a significant component of the Australian Very Long Baseline Interferometry array. In addition, the School operates a 1 m optical telescope at Mt Canopus, which is about 30 minutes drive from the Hobart campus. The successful candidates will work with John Dickey and Simon Ellingsen on projects involving cm-wave astronomy at high data rates, including • e-VLBI, • pulsar microstructure, • radio frequency transient searches, • Galactic 21-cm line surveys • interstellar masers and high mass star formation. Part of the job will involve integration and operation of optical fibre datalinks between the telescopes for broad band data processing and analysis. The University of Tasmania radio astronomy group is active in Galactic and extragalactic studies including observations of the interstellar medium, Galactic structure and dynamics, star formation, pulsars, active galaxy nuclei, and radio sources in clusters of galaxies.

Candidates should have a PhD in astronomy and experience in high speed data taking hardware and software, computer networking and data transmission. The successful candidate will have opportunities to further his/her personal research interests using University of Tasmania and national facilities. Salary range: \$AUD 51,554 to 55,160 level A6 depending on experience, plus superannuation and relocation allowance. Both positions are for two year terms with the possibility of extension for a third year.

**No. 21662**

**Professor**

**UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY**

**2680 Woodlawn Drive**

**Honolulu, HI 96822**

**USA**

**Tel: 808-956-8566**

**FAX: 808-946-3467**

***Attention: Dr. Rolf Kudritzki, Director***

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The Institute for Astronomy (IfA) at the University of Hawaii invites applications for a non-tenure track, 9-month appointment faculty position to begin approximately April 2005. The University of Hawaii is a Carnegie doctoral/research university with a strong emphasis on research and graduate education.

Duties: The successful applicant is expected to teach courses at the graduate level, train graduate students, and to lead a program in advanced astronomical image processing and solar optical instrumentation. The Institute for Astronomy is presently enlarging its solar research program with a new education, research, and technology facility on the island of Maui, and as a consequence this position is to be located on Maui.

Minimum qualifications: Ph.D. in Astronomy, Physics or closely related field, and four years experience at the Associate level or equivalent. Proven record of research excellence in solar astronomy and ability to attract federal funding and salary support.

The salary will be commensurate with qualifications and experience. Further details may be

obtained from Dr. Rolf Kudritzki (808-956-8566; kud@ifa.hawaii.edu) or Dr. Jeff Kuhn (808-956-8968; kuhn@hawaii.edu).

To Apply: Send curriculum vitae, statement of research accomplishments and goals, and the names and contact information of at least three references to Dr. Rolf Kudritzki, Director, Institute for Astronomy, 2680 Woodlawn Dr., Honolulu, HI 96822. Please reference position number 86113.

Closing date: Applications should be received by March 31, 2005.

The University of Hawaii is an EEO/AA employer and encourages applications from women and minorities.

**No. 21663**

**Postdoctoral Position in Astrophysics**

**THE OHIO STATE UNIVERSITY**

**4055 McPherson Lab**

**140 West 18th Avenue**

**Columbus, OH 43210**

**USA**

**Tel: 6142921773**

**FAX: 6142922928**

**URL1: <http://www.astronomy.ohio-state.edu>**

**Email Submission Address: [pinsonneault.1@osu.edu](mailto:pinsonneault.1@osu.edu)**

**Email Inquiries: [pinsonneault.1@osu.edu](mailto:pinsonneault.1@osu.edu)**

***Attention: Marc Pinsonneault, Associate Professor***

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The Astronomy Department of the Ohio State University invites applications for an expected post doctoral research position in the field of theoretical stellar structure and evolution. The successful candidate will work in collaboration with Drs. Marc Pinsonneault and Donald Terndrup, and Dr. Steven Kawaler (Iowa State University). Problems to be addressed include asteroseismology of hot horizontal branch stars, and the impact of radiative levitation, gravitational settling, and mixing mechanisms on stellar populations and abundances. Applicants should have a PhD in astronomy or a related field. A background in theoretical stellar interiors, atmospheres, or seismology is an asset, but talented theorists from related areas of astrophysics are encouraged to apply.

The appointment is renewable for up to three years, contingent on successful satisfactory performance and the availability of funds. The anticipated starting date is 1 October 2005.

Applicants should send a CV, a list of publications, a brief statement of research interests and arrange to have three letters of recommendation sent to Dr. M.H. Pinsonneault at the above address or e-mailed to [pinsonneault.1@osu.edu](mailto:pinsonneault.1@osu.edu). Review of applications will begin on March 15th and continue until the position is filled. To build a diverse workforce Ohio State encourages applications from individuals with disabilities, minorities, veterans, and women. EEO/AA employer.

**No. 21664**

**Professor of Radioastronomy Technology**  
**UNIVERSITY OF MANCHESTER**  
**Jodrell Bank Observatory**  
**Macclesfield, Cheshire SK11 9DL**  
**UK**  
**Tel: +44 (0)1477572603**  
**FAX: +44 (0)1477572649**  
**URL1: <http://www.jb.man.ac.uk/news/vacancies/>**  
**(JBO Job Vacancies)**  
**Email Submission Address: [je@jb.man.ac.uk](mailto:je@jb.man.ac.uk)**  
**Email Inquiries: [pnw@jb.man.ac.uk](mailto:pnw@jb.man.ac.uk)**

***Attention: Janet Eaton***

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To provide impetus to its world-ranked research programme in radioastronomy, The University of Manchester seeks to appoint a person of the highest calibre to a new Chair of Radioastronomy Technology.

The person we are seeking must have intellectual and leadership abilities of a high order. He/she must have a proven track record in developing innovative astronomical instrumentation or have equivalent expertise in an industrial R&D environment along with a keen interest in astronomy and a publication record. The new Chair will play a strategic managerial role within the Jodrell Bank Observatory, and will take the lead in the appointment of a university lecturer whose skills will have a strong technology component.

A particular interest of Manchester radioastronomers over the next decade will be technology development for the international Square Kilometre Array (SKA, see <http://www.skatelescope.org> ). The successful applicant will possess the drive and vision to play a leading technological role for Manchester and the UK SKA Consortium of Universities within the international SKA community. This is an unique opportunity for the right individual to play a major part in setting the future course of world radioastronomy. The University is seeking candidates of the highest quality and will be flexible in negotiating the salary and conditions of service.

Application forms and further details may be downloaded by visiting the website: [www.manchester.ac.uk/vacancies](http://www.manchester.ac.uk/vacancies). Alternatively please telephone Janet Eaton on +44 (0)1477 572603, fax: +44 (0)1477 572649 or email [janet.eaton@manchester.ac.uk](mailto:janet.eaton@manchester.ac.uk) for an application form and further details. Deadline 15th April 2005

**No. 21665**  
**Instrument Scientist**  
**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**1200 E. California Blvd.**  
**Mail Code 105-24**  
**Pasadena, CA 91125**  
**USA**  
**Tel:**  
**Email Inquiries: [rgd@astro.caltech.edu](mailto:rgd@astro.caltech.edu)**

**Attention: Richard Dekany, Associate Director for Development**

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Caltech Optical Observatories (COO) is seeking an instrument scientist to join its Optical and Infrared instrumentation group. This group designs, fabricates, and supports astronomical instrumentation systems for the Palomar 5m, Keck 10m, and planned TMT 30m diameter telescopes.

Applications should be submitted through the Caltech Employment web page at:  
<http://cit.hr.caltech.edu/Jobs/JobListings.htm>

The Instrument Scientist will:

- Develop and coordinate conceptual opto-mechanical designs for astronomical instrumentation systems, including their adaptive optics (AO) subsystems;
- Evaluate these designs against scientific and technical performance requirements;
- Support the definition of instrument system parameters and error budgets;
- Perform cost vs. performance tradeoffs;
- Develop detailed designs and performance estimates to support the preliminary and final design efforts;
- Prepare interface control documents and integration/test plans;
- Survey vendors and develop cost estimates for opto-mechanical components;
- Monitor and coordinate associated opto-mechanical engineering activities within the OIR group and collaborators;
- Lead acceptance testing for opto-mechanical components and systems;
- Lead integration and test activities for opto-mechanical systems assembled in-house.

**Minimum Requirements**

- 5 years experience in optical/IR astronomical instrument development for large telescopes. Familiarity with adaptive optics techniques is strongly preferred.
- A Bachelor's degree in a related engineering or physical science discipline is required. A Doctoral degree, or equivalent research experience, is preferred.
- Experience in optical specification, tolerancing, procurement, integration, and testing;
- Significant experience in procuring sophisticated opto-mechanical systems and monitoring vendors;
- Successful experience in developing and executing complex integration/test plans;
- A record of publication in professional journals;
- Significant travel will be required to partner, vendor and observatory locations.

**No. 21666****Postdoctoral Research Position in Extragalactic Astronomy****UNIVERSITY OF CALIFORNIA, RIVERSIDE****Institute of Geophysics and Planetary Physics****Riverside, CA 92521****Tel: (951) 827-5310****FAX: (951) 827-4324****URL1: <http://www.ucr.edu>****URL2: <http://www.igpp.ucr.edu>****Email Submission Address: [gabriela.canalizo@ucr.edu](mailto:gabriela.canalizo@ucr.edu)****Email Inquiries: [gabriela.canalizo@ucr.edu](mailto:gabriela.canalizo@ucr.edu)****Attention: Gabriela Canalizo, Assistant Professor of Astrophysics**

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The University of California, Riverside, and the Institute of Geophysics and Planetary Physics invite applications for a postdoctoral position to work on a project on quasar host galaxies in collaboration with Prof. Gabriela Canalizo. The research project includes the analysis and interpretation of HST imaging and Keck spectroscopic data. The successful applicant will have time available for independent research. The initial appointment is for two years, with the possibility to renew for an additional year subject to performance and availability of funding. The position is available immediately, but the start date is flexible.

Candidates should have obtained, by the starting date, a PhD degree and have experience in one of the following areas: AGN host galaxies, image modeling and deconvolution, stellar population modeling, and/or stellar populations in faint galaxies. Programming experience is desirable.

Applicants should submit a CV, list of publications, a brief description of research interests and relevant experience, and names and contact information for three references to the above address. Applications received by April 1 will receive full consideration, but the position is open until filled.

The University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

**No. 21667**

**Postdoctoral Research Position in SubStellar Astrophysics -**

**UNIVERSITY OF HERTFORDSHIRE**

**College Lane**

**Hatfield, Hertfordshire AL10 9AB**

**UK**

**Tel: +44 1707 284802**

**URL1: <http://star.herts.ac.uk>**

**(Centre for Astrophysics Research)**

**URL2: <http://www.ukidss.org>**

**(UKIDSS survey website)**

**URL3: <http://recruitment.herts.ac.uk/recruit>**

**(For online application)**

**Email Inquiries: [hraj@star.herts.ac.uk](mailto:hraj@star.herts.ac.uk)**

***Attention: Personnel Department***

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We are seeking to appoint a postdoctoral researcher in substellar astrophysics. The position is funded by an award from the Particle Physics and Astronomy Research Council. The researcher will work within the substellar astrophysics group made up of Hugh Jones, David Pinfield, Phil Lucas and Peter Wheatley. The main focus of the postdoctoral researcher will be the interpretation and follow-up of brown dwarfs discovered by the large area survey made by the UKIRT telescope.

The position, which is available initially for 18 months, can start 1st April 2005 or as soon thereafter. The starting salary will be circa £22,000 pa. Subsequent funding for additional years will depend on performance.

The centre for astrophysics research is based in the town of Hatfield located in semi-rural Hertfordshire. Hatfield is around 25 minutes by train from central London.

An application form can be obtained from the Personnel Department at the University of Hertfordshire, College Lane, Hatfield, Hertfordshire AL10 9AB, UK (telephone +44 1707 284802). The completed application form accompanied by a full CV and personal statement should be returned to the Personnel Department or to Prof. Hugh Jones, quoting the reference number H6160L. Applications may also be submitted online. Applicants should arrange for 2 references to be sent to the Personnel Department or to Prof. Hugh Jones by the closing date.

The closing date for applications is 1 April 2005, and we anticipate holding interviews shortly thereafter.

The University is an Equal Opportunity Employer.

**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](http://www.mpa-garching.mpg.de/~sazonov/grb_position.html)**

**Email Submission Address: [sunyaev@mpa-garching.mpg.de](mailto:sunyaev@mpa-garching.mpg.de)**

***Attention: Professor Rashid Sunyaev, Managing Director***

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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](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. 21669**

**Permanent Staff Position in Star Formation Research**

**CEA SACLAY**

**Orme des Merisiers - Bat. 709**

**France****Tel:****FAX: +33 (0)1 69 08 65 77****Email Submission Address: [pandre@cea.fr](mailto:pandre@cea.fr)****Email Inquiries: [pandre@cea.fr](mailto:pandre@cea.fr)*****Attention: Philippe Andre, Dr.***

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The Astrophysics Laboratory ("Service d'Astrophysique" or SAp) at CEA Saclay seeks candidates for a permanent staff position in star formation research.

The SAp is a major space astrophysics laboratory located about 20 km south-west of Paris. It is part of a broader Department (DAPNIA) with a large technical staff and expertise not only in astrophysics but also nuclear and particle physics. DAPNIA/SAp is actively involved in the development of the two far-infrared and submillimeter imaging instruments PACS and SPIRE of the future Herschel Space Observatory (HSO). It has also been responsible for instruments on the ground, such as the VLT Imager and Spectrometer for the mid-Infrared (VISIR).

In recent years, the Saclay star formation group has focused on millimeter/submillimeter studies of the earliest phases of star formation, and on infrared imaging of dusty disks around young stars. We are also involved in hydrodynamical simulations of cloud fragmentation and collapse.

The successful applicant is expected to carry out independent research projects in one of these areas and to take an active role in the scientific exploitation of the major Herschel and VISIR observing programmes in which our group has invested a large amount of guaranteed time.

We invite applications from scientists with a PhD in astrophysics and a strong observational or theoretical record in the field of star formation. Demonstrated experience in either dust/gas radiative transfer modelling or submillimeter instrumentation will be a key advantage. The starting date is flexible and could be as early as 1 September 2005.

Please send a CV, a list of publications and a statement of research interests, and arrange for three letters of recommendation before 31 March 2005.

**No. 21670****Post-doctoral Researcher in high redshift galaxies****UNIVERSITY OF EXETER****Stocker Road****Exeter****UK****Tel:****Email Submission Address: [bunker@astro.ex.ac.uk](mailto:bunker@astro.ex.ac.uk)****Email Inquiries: [bunker@astro.ex.ac.uk](mailto:bunker@astro.ex.ac.uk)*****Attention: Dr Andy Bunker, Lecturer***

The University of Exeter intends to appoint a post-doctoral researcher in the field of high redshift galaxies, to work with Andrew Bunker in the astrophysics group. Applicants with observational and data-reduction experience and expertise in faint-object imaging and spectroscopy in the optical and near-infrared are particularly welcome. The group's work focuses on star formation, including the star formation history of the universe and the link to galaxy evolution. Our research was rated excellent in the last UK Research Assessment Exercise. The successful applicant would be expected to make use of the UK's access to forefront astrophysical facilities which include the VLT, Gemini, HST, WHT, UKIRT.

The successful applicant will have an appropriate first degree and a PhD (or equivalent),

Salary will be in the range scale £21640pa - £29128pa depending on qualifications and experience. The appointment will be for 3 years in the first instance.

An application form is available on request, and applicants should send this along with a description of their current research (3 pages), a brief curriculum vita, and a list of refereed publications to Dr A Bunker, School of Physics, University of Exeter, EX4 4QL UK, quoting reference number R6601. Closing date is 15 April 2005. Please also ensure that 3 letters of reference reach Exeter by this date. Informal enquiries can be made by emailing [bunker@astro.ex.ac.uk](mailto:bunker@astro.ex.ac.uk)

EQUAL OPPORTUNITIES EMPLOYER

**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](mailto:apple@ipac.caltech.edu)**

**Email Inquiries: [apple@ipac.caltech.edu](mailto:apple@ipac.caltech.edu)**

***Attention: Dr. Philip Appleton***

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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. 21672****Research Scientist for computing and instrumentation support****UNIVERSITY OF VIRGINIA****P.O. Box 3818****Charlottesville, VA 22903-0818****USA****Tel: 434-924-7494****FAX: 434-924-3104****URL1: <http://www.astro.virginia.edu>****(Department of Astronomy)****Email Submission Address: [tec05@astsun.astro.virginia.edu](mailto:tec05@astsun.astro.virginia.edu)****Email Inquiries: [tec05@astsun.astro.virginia.edu](mailto:tec05@astsun.astro.virginia.edu)****Attention: tec05**

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Applications are invited for a position as Research Scientist in the Department of Astronomy at the University of Virginia. This is primarily a support position in the areas of computer system management and astronomical instrumentation for our educational and research programs. The successful applicant will be responsible for specifying, acquiring, installing, and maintaining computers and software used for data acquisition at three observatories and in departmental offices, undergraduate and graduate laboratories, and classrooms. The Department operates primarily SUN Solaris machines but is evolving toward Linux. A broad knowledge of UNIX is essential, and familiarity with IDL, IRAF/SDAS, other astronomical data analysis software is highly desirable. Classroom and laboratory support requires some knowledge of PCs as well. Experience in interfacing computers with observatory instrumentation is desirable. The position is full time and the candidate may be hired for anywhere from 32 to 40 hours a week. The opportunity to pursue personal research projects is also a point for negotiation. A description of departmental facilities and other aspects of the local environment can be found at our web site. Candidates should have a Ph.D. in astronomy or a Masters' degree plus five years of experience with computer equipment, operating systems, applications software, and/or astronomical instrumentation. The application should include a curriculum vitae, a bibliography, a statement of scientific interests, a description of computer and instrumentation experience, and a salary history. The applicant should arrange for three letters of reference to be sent.

Electronic submission is acceptable. Email only ascii, pdf, and postscript documents. MSWord and similar formats are not acceptable. All applications and letters of reference should be sent before April 1, 2005 or sooner if possible. We would like to fill this position rapidly. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

**No. 21673****Postdoctoral Position in Extragalactic Astronomy****UNIVERSITY OF WYOMING****Physics & Astronomy****Dept. 3905, 1000 E. University Ave.****Laramie, Wyoming 82071**

**United States**  
**Tel: 307-766-5402**  
**FAX: 307-766-2652**  
**URL1: <http://physics.uwyo.edu>**  
**Email Submission Address: [mbrother@uwyo.edu](mailto:mbrother@uwyo.edu)**  
**Email Inquiries: [mbrother@uwyo.edu](mailto:mbrother@uwyo.edu)**

***Attention: Michael Brotherton, Assistant Professor***

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The Department of Physics and Astronomy at the University of Wyoming invites applications for a postdoctoral researcher to work with Prof. Mike Brotherton and Dr. Zhaohui Shang on active galactic nuclei. The successful applicant will participate in obtaining and analyzing space-based, ground-based, and archival observations relating to quasar spectral energy distributions and to post-starburst quasars. Applicants should have completed a Ph.D. in astronomy or physics and be ready to start no later than the fall of 2005, although an earlier start date is possible. Experience working with one or more of the following is desirable: Chandra, XMM, HST, Spitzer, ROSAT, ground-based observations, statistical analyses, AGN/starburst models. Salary is competitive. Some time will be available for personal research. Applicants interested in building teaching experience may elect to teach a physics or astronomy course at some point. Available resources include Wyoming's 2.3 m WIRO telescope with wide-field imager and integral-field fiber spectrograph, and a near-infrared camera. The initial appointment is for one year, renewable for up to three years depending on performance and funding resources. Applicants should send a CV, a brief summary of research accomplishments and interests, along with three letters of recommendation addressed to Prof. Mike Brotherton at the above address. Applications received by 15 April 2005 will receive full consideration. AAE/EOE.

**No. 21674**  
**Visiting 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](mailto:tmoore@pomona.edu)**

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

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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](mailto:tmoore@pomona.edu). See [www.physics.pomona.edu](http://www.physics.pomona.edu) and [www.astronomy.pomona.edu](http://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. 21675**  
**Postdoctoral Research Fellow**  
**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
**770 So. Wilson Ave.**  
**MS 100-22**  
**Pasadena, CA 91125**  
**USA**  
**Tel:**  
**URL1: <http://spitzer.caltech.edu>**

***Attention: Mary Ellen Barba, Supervisor of Staff Operations***

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Applications are invited for a postdoctoral scholar position in infrared astrophysics at Caltech to work with George Helou primarily on analysis and interpretation of Spitzer Space Telescope data ( <http://spitzer.caltech.edu> ). The successful candidate may participate in any of a number of extragalactic projects, most significantly: nearby galaxy studies based on data from "Spitzer Nearby Galaxy Survey (SINGS)"; local analogs to early galaxies such as low-metallicity dwarves and nascent starbursts; and high-redshift population studies based on deep Spitzer surveys. The research will incorporate a wealth of ancillary ground and space-based data covering X-ray, UV, visual, near-infrared, radio, and sub-millimeter wavelengths to form a complete picture of the physical conditions governing star formation, and the implications for galaxy evolution and phenomenology.

Candidates should have obtained by their starting date a Ph.D. in astronomy, physics or equivalent, in an area relevant to the science themes above. Experience with infrared or extragalactic astronomy is highly desirable. The successful candidate is expected to participate in the reduction and analysis of Spitzer and related ancillary data, and in the publication of results, pursuing established science goals or new goals developed by the candidate. Postdoctoral scholars working at Caltech have access to excellent research facilities and support.

The appointment is for one year renewable, and could start as early as June 2005. To apply, please send resume, bibliography, and statement of research to the above address as soon as possible, but no later than April 15, 2004, and have three letters of reference forwarded to the same address. Caltech is an Affirmative Action/Equal Opportunity Employer. Women,

Minorities, Veterans, and Disabled Persons are encouraged to apply.

**No. 21676****Instructor of Astronomy****BOWLING GREEN STATE UNIVERSITY****Dept. of Physics & Astronomy****Bowling Green State University****Bowling Green, OH 43403****USA****Tel: 419-372-7244****FAX: 419-372-9938****URL1: <http://physics.bgsu.edu>****Email Submission Address: [laird@tycho.bgsu.edu](mailto:laird@tycho.bgsu.edu)****Email Inquiries: [laird@tycho.bgsu.edu](mailto:laird@tycho.bgsu.edu)*****Attention: John B. Laird, Chair***

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Applications are invited for an astronomy instructor position beginning in August 2005. This is a full-time position teaching undergraduate astronomy and possibly physics courses during the academic year, with additional teaching available during the summer if desired. The appointment will be for three years, with continuation beyond the first year contingent on favorable performance evaluation, and may be renewed for additional three-year terms. A Ph.D. in astronomy or physics is strongly preferred, but an exceptional candidate with an M.S. will be considered. The successful candidate will be expected to contribute to the teaching mission of the Department, and will also be encouraged to be involved in research, either independently or as part of an existing Department program. Applicants should send curriculum vitae and a description of experience and teaching goals and philosophy, and should arrange to have three original letters of recommendation submitted directly on their behalf to: Astronomy Search, c/o John B. Laird, Chair, Dept. of Physics & Astronomy, Bowling Green State University, Bowling Green, OH 43403. Screening of applications will begin on March 31. BGSU is an Affirmative Action/Equal Employment employer and encourages applications from women, minorities, veterans and individuals with disabilities.

**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](mailto:ghez@astro.ucla.edu)****Email Inquiries: [ghez@astro.ucla.edu](mailto: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](mailto: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](mailto:tau@not.iac.es)**

***Attention: Dr. Thomas Augusteijn, Astronomer in Charge***

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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. 21679**

**Senior Researcher/Lecturer-Observational Cosmology  
INSTITUTE OF PHYSICS OF THE UNIVERSITY OF GUANAJUATO (MEXICO)**

**Universidad de Guanajuato**

**Loma del Bosque 103**

**Lomas del Campestre, Leon GTO 37150**

**Mexico**

**Tel: 52-477-788-5100 ext. 8414**

**FAX: 52-477-788-5100**

**URL1: <http://www.astro.ugto.mx>**

**Email Inquiries: [heinz@astro.ugto.mx](mailto:heinz@astro.ugto.mx)**

***Attention: Mauro Napsuciale, Dr.***

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The Department of Astronomy (DA) of the Institute of Physics (IFUG) of the University of Guanajuato (Mexico) invites applications for a tenure-track faculty position to begin by mid-2005. We seek a senior researcher/lecturer in our lines of research "Observational Cosmology" (preference) or "Formation and Evolution of Galaxies" (see <http://www.astro.ugto.mx> ). Outstanding candidates in other fields will be considered, and interest in instrumentation or theory will be an asset. Responsibilities include teaching at both undergraduate and graduate level, research, participation in public outreach and administration.

Applicants should have a PhD in Astronomy or Physics with several years of postdoc experience, show evidence of outstanding accomplishments in research, have a demonstrated capacity in teaching and supervision of theses, the potential to motivate students and develop significant research programs with them, and the willingness to work as a team member in a small group. The candidate will teach graduate courses (english or spanish) and undergraduate ones (spanish).

Candidates should submit (a) letter of application including a statement of earliest date available, (b) extended CV with publication list, (c) research plan for 1--2 years, (d) documents demonstrating his/her academic accomplishments, and (e) two letters of recommendation to both of the following addresses, by April 15, 2005:

Dr. Mauro Napsuciale, Instituto de Fisica, Universidad de Guanajuato, Loma del Bosque 103, Lomas del Campestre, Leon GTO 37150, Mexico, (email: [secrea@fisica.ugto.mx](mailto:secrea@fisica.ugto.mx) , phone/FAX

+52-477-788-5100 ext. 8414/8410) and Dr. Heinz Andernach, Head of Search Committee, Astronomy Department, Apdo. Postal 144, Guanajuato, GTO 36000, Mexico, (email: [heinz@astro.ugto.mx](mailto:heinz@astro.ugto.mx) , phone +52-473-732-9548, FAX +52-473-732-0253).

**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](mailto:ApJ_Search@aaas.org)*****Attention: Patrick Osmer, Chair, ApJ Editor-in-Chief Search Committee***

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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.

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American Astronomical Society, 2000 Florida Ave., NW, Suite 400, Washington, DC 20009, USA  
202-328-2010 \* FAX 202-234-2560 \* [www.aas.org](http://www.aas.org) \* [aas@aas.org](mailto:aas@aas.org)