

# American Astronomical Society

## Job Register - The Key To Astronomy Employment

---

### Editorial

#### ***Job Register Fee Change***

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

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

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

Kevin B. Marvel  
Deputy Executive Officer

### Publication Policy for the AAS Job Register

---

#### ***Deadlines for submission***

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

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

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

#### ***Examples***

Submit and pay by 15 October - Announcement will appear in the November *Job Register*

Submit and pay by 19 October - Announcement will appear in the December *Job Register*

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

#### ***Rate Sheet***

For rate information please see the [job register submission form](#).

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

We accept payment by:

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

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

American Astronomical Society
-------------------------------

Attention Job Register Payment
--------------------------------

2000 Florida Ave., NW,
------------------------

Suite 400
-----------

Washington, DC 20009-1231, USA
--------------------------------

FAX: 202-234-2560

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

The AAS Federal Identification number is 21-0735173.

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

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

### ***Announcement Requirements***

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

Jobs will not be published without the following:

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

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

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

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

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

## **Submission**

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

## **AAS Postdoctoral Position Policy**

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

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

## **Frequency and Circulation**

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

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

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

## **Member Notification**

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

---

## **Recent Job Postings**

### **Notes**

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

---

**No. 23414 (New)**  
**JWST Mission Office Head**  
**SPACE TELESCOPE SCIENCE INSTITUTE**  
**3700 San Martin Drive**  
**Baltimore, MD 21218**  
**USA**  
**Tel:**

**Email Submission Address:** [execjob@stsci.edu](mailto:execjob@stsci.edu)

**Attention:** *Human Resources, Req#550*

The James Webb Space Telescope (JWST) is a world-class, space-based astronomical observatory scheduled for launch in 2013. JWST holds the potential to revolutionize many branches of astrophysics by achieving unprecedented sensitivity and angular resolution in the near and mid-infrared regions of the spectrum. JWST received the highest rank in the National Academy of Science's 2000 Decadal Survey report "Astronomy and Astrophysics in the New Millennium."

Space Telescope Science Institute (STScI) is seeking a dynamic leader to serve as its JWST Mission Office Head. The Mission Office Head is responsible for bringing the JWST Science & Operations Center (S&OC) at STScI to launch readiness and, ultimately, for maximizing the science return from the JWST Mission. This individual will be the Institute's prime point of contact with the JWST Project at Goddard Space Flight Center, the JWST Science Working Group, JWST Instrument teams, and contractors involved in the project. The Mission Office Head will be an advocate for the science objectives of the mission to NASA and relevant national advisory committees and will provide the leadership to ensure substantial engagement of the scientific community with STScI during the pre-launch and operational phases of JWST. As a member of the Institute's Management Directorate, s/he will be responsible for the overall execution, quality and timeliness of all aspects of the Institute's performance on the JWST Mission.

The position requires a broad knowledge of current advances in astronomy, large mission operations and management as well as knowledge of the relevance of JWST's capabilities to those fields. Experience conducting negotiations with high-level NASA, science, and industry leaders and the ability to work effectively with scientists, engineers, and ground-systems operations staff is essential. The candidate must also possess excellent presentation skills and demonstrated project leadership abilities. Prior experience on NASA missions is highly desirable.

The successful candidate will possess a Ph.D. in astronomy, or a related science field, and 10+ years of combined experience as an active astronomical researcher as well as oversight of science operations of an astronomical endeavor of similar complexity to the JWST S&OC. Note: Substitution of additional relevant education or experience for the stated qualifications may be considered.

Space Telescope Science Institute offers a dynamic work environment with an opportunity to participate in the next generation of space science and discovery. We offer a highly competitive benefits and compensation package. Applications received by February 23, 2007 will receive full consideration. Women and minorities are strongly encouraged to apply. Qualified candidates are requested to email a letter describing their interest and experience, a CV, and names of at least three references to the email or postal address above. EOE/AA/M/F/D/V.

---

**No. 23422 (New)**

**Astrophysicist**

**SMITHSONIAN ASTROPHYSICAL OBSERVATORY**

**60 Garden Street**

**MS-17 (JP 27-11)**

**Cambridge, MA 02138**

**United States**

**Tel:**

**URL1:** <http://cfa-www.harvard.edu/hr/postings/index.html>

**URL2:** <http://sma-www.harvard.edu/employ/>

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

**Attention: Recruiter 456**

Astrophysicist Federal, Permanent/Full Time Hilo, HI

The Smithsonian Astrophysical Observatory (SAO), a member of the Harvard–Smithsonian Center for Astrophysics is a research facility of the Smithsonian Institution, located in Cambridge, MA. SAO is part of what is arguably the largest and most diverse astrophysical institution in the world. SAO astronomers and astrophysicists conduct basic scientific research relying on observations from ground-based or space-based telescopes, theoretical studies, and/or related laboratory support research. It has pioneered the development of orbiting observatories and large ground-based telescopes, the application of computers to astrophysical problems, and the integration of laboratory measurements, theoretical astrophysics, and observations across the electromagnetic spectrum.

We are seeking an outstanding astrophysicist to lead operations at our Submillimeter Array (SMA) which is the world's first submillimeter wavelength interferometer. The SMA is a collaboration between the Smithsonian Astrophysical Observatory and the Academia Sinica Institute for Astronomy and Astrophysics of Taiwan. It consists of eight 6 meter diameter precision radio-antennas, located at 13,400 meters altitude, at the summit of Mauna Kea, HI, and currently operates throughout the major atmospheric windows from about 200GHz to 700 GHz. All eight antennas have been assembled and are equipped with receivers operating in the 200, 300 and 650 GHz frequency bands. The candidate will also conduct his/her own active research program that will advance the knowledge of observational astronomy and the capabilities of the SMA in particular. The candidate is expected to possess extensive knowledge of millimeter or submillimeter wavelength astronomy, expertise in the area of aperture synthesis and spectroscopy, and extensive experience providing guidance, leadership, direction, and oversight to staff. The candidate should possess a high degree of imagination, judgment, initiative, and scholarly competence necessary to formulate, conduct and present the results of programs of advanced research and the ability to successfully function with others in a research group and to provide leadership to such groups including supervising and consulting with scientists, technical staff and students.

Interested applicants should forward a curriculum vita and bibliography, statement of interest and three professional letters of recommendation to the Smithsonian Astrophysical Observatory, MS-17 (JP 27-11), 60 Garden Street, Cambridge MA 02138 or via email to [saoresumes@cfa.harvard.edu](mailto:saoresumes@cfa.harvard.edu). Applications received by March 1, 2007 will receive initial consideration. In the event that additional applicants are required, those received after March 1, 2007 but by March 30, 2007 will receive consideration.

For further details on the project and the vacancy posting, visit the SMA website at <http://sma-www.harvard.edu/employ/> and <http://cfa-www.harvard.edu/hr/postings/index.html>

---

**No. 23427 (New)**

**RCUK FELLOWSHIP IN Dark Sector Research (DB07002)**

**UNIVERSITY OF OXFORD**

**Denys Wilkinson Building**

**Keble Road**

**Oxford, Oxon OX1 3RH**

**United Kingdom****Tel:** ++44 (0) 1865 273302**FAX:** ++44 (0) 1865 273390**URL1:** <http://www-astro.physics.ox.ac.uk/jobs/> ((*Physics (Astrophysics)*))**Email Submission Address:** [sec@astro.ox.ac.uk](mailto:sec@astro.ox.ac.uk)**Email Inquiries:** [NONE](#)**Attention:** *Vanessa Ferraro-Wood, Mrs*

UNIVERSITY OF OXFORD Mathematical, Physical and Life Sciences Division  
Department of Physics in association with Exeter College RCUK FELLOWSHIP IN Dark  
Sector Research

---

Applications are invited for this 5-year fellowship which will lead to a permanent academic post on the successful completion of a probationary period. The Academic Fellowship Scheme (<http://www.rcuk.ac.uk/acfellow/>) is a national initiative funded by the Research Councils. It is particularly suited to individuals who hold other types of research fellowships but do not have a guarantee of a permanent position. Salary will be on a scale of £25,633 to £31,525 (with a discretionary range to £34,448), plus additional college benefits. The advertised post was awarded to Oxford University under the theme of Dark Sector research (see <http://www-astro.physics.ox.ac.uk/darksector/>). Preference will be given to applicants with a background in theoretical cosmology and an interest in all mathematical and statistical aspects of Dark Sector research. The successful applicant is expected to take up the appointment by 1 October 2007. In addition to research, the postholder will be expected to develop his or her expertise in teaching and to take part in outreach to schools. Subject to satisfactory performance, the postholder will be appointed to a permanent academic post at the end of the five-year fellowship period. Applications, including a statement of research interests and teaching experience, curriculum vitae, bibliography, and the names and addresses of three referees (not more than two from the same institution) should be sent to arrive no later than 2 April 2007. Questions about the post can be addressed to Prof Steve Rawlings ([sr@astro.ox.ac.uk](mailto:sr@astro.ox.ac.uk)). Candidates should arrange for letters of reference to be sent to the same address to arrive by the closing date. Electronic applications are preferred in PDF, PS, or MS Word formats. Applications will be acknowledged but not reference letters. Applications should be submitted to Mrs Vanessa Ferraro-Wood, Sub-department of Astrophysics, The Denys Wilkinson Building, Keble Road, Oxford, OX1 3RH, UK, quoting job reference DB07002 on all correspondence, email: [sec@astro.ox.ac.uk](mailto:sec@astro.ox.ac.uk); fax: 00-44- (0) 1865-273390. Further Particulars of the post, including application details may be obtained from <http://www-astro.physics.ox.ac.uk/jobs/> The University is an Equal Opportunities Employer.

---

**No. 23429 (New)****Engineers****BOLTON OIL & GAS****Tel:****Email Submission Address:** [boltonoils@yahoo.com](mailto:boltonoils@yahoo.com)**Email Inquiries:** [boltonoils@yahoo.com](mailto:boltonoils@yahoo.com)**Attention:** *Mr. Julius Fredson*

Business Description Bolton Oil & Gas Company. The Group's principal activity is to explore, develop, produce, acquire, and sell natural gas and crude oil. The Group's exploration and production efforts are currently focused offshore on the Gulf Coast and

offshore in the Gulf of Mexico and in the Arkansas Fayetteville

Shale. The primary source of production is currently in south Texas. The Group operates in the United Kingdom.

About the job We have sales representatives all over the world to distribute our products. You know, that it's not easy to start a business in a new market

(being Australia). There are hundreds of competitors, close direct contacts between suppliers and customers and other difficulties, which impede our sales

promotion. We have decided to deliver the products upfront, it's very risky but it should push up sales on 25 percent. Thus we need to get payments for

our products as soon as it possible.

---

**No. 23436 (New)**

**Director, Research School of Astronomy and Astrophysics**

**THE AUSTRALIAN NATIONAL UNIVERSITY (ANU)**

**Chancelry 10A**

**Canberra, ACT 0200**

**Australia**

**Tel:**

**Email Submission Address: [jobs@anu.edu.au](mailto:jobs@anu.edu.au)**

***Attention: Human Resources***

ANU College of Science

Director, Research School of Astronomy and Astrophysics

Attractive Remuneration Package

Reference: RSAA 3817

The Australian National University (ANU) seeks a distinguished scholar as the new Director of its Research School of Astronomy and Astrophysics (RSAA).

RSAA is the premier astronomical research institution in Australia with a long history of scientific accomplishments. The School operates the Mount Stromlo and Siding Spring Observatories, and owns the 2.3m and 40inch telescopes, with the wide-field 1.3m Skymapper telescope to receive first light in 2007. RSAA has an internationally renowned instrumentation program and a new state-of-the-art facility dedicated to astronomical technology. The ANU is the only non-US partner in the Giant Magellan Telescope consortium. RSAA has access to excellent computing resources through the ANU Supercomputer Facility.

The Director should possess broad scientific vision and have a record of outstanding achievements in research. He/she should have demonstrated experience in management with strong leadership abilities. As Director you will be the academic and administrative leader of the School, and responsible for its academic, technical, financial and administrative affairs. You must be able to work collegially within the University and at the national and international level.

The term of the Directorship will be for an initial period of five years with opportunity for renewal subject to mutual agreement. The successful candidate may also be offered a continuing appointment as Professor of the University.

Information about the School can be obtained from: <http://rsaa.anu.edu.au>

Selection Criteria: <http://info.anu.edu.au/hr/jobs/> or from Suzanne Mendes, T: +61 2 6125 0273, E: [Suzanne.mendes@anu.edu.au](mailto:Suzanne.mendes@anu.edu.au)

Enquiries: Professor Ian Chubb, Vice-Chancellor, T: +61 2 6125 2510, E: [vc@anu.edu.au](mailto:vc@anu.edu.au)

Closing Date: Monday 5 March 2007

---

**No. 23439 (New)**

**Manager of Scientific Computing**

**AMERICAN MUSEUM OF NATURAL HISTORY**

**Department of Astrophysics**

**79th Street at Central Park West**

**New York, NY 10024-5192**

**USA**

**Tel: 212-313-7441**

**FAX: 212-769-5007**

**URL1: <http://research.amnh.org/scicomp/> (*Scientific Computation at the Museum*)**

**URL2: <http://research.amnh.org/> (*Research at the Museum*)**

**Email Submission Address: [gking@amnh.org](mailto:gking@amnh.org)**

**Email Inquiries: [mordecai@amnh.org](mailto:mordecai@amnh.org)**

***Attention: Gwen King, Administrative Assistant***

The American Museum of Natural History seeks a manager of scientific computing. Primary responsibility is the planning and management of high-performance computing (HPC) programs in the Museum to make computing programs within the institution stronger and more efficient. The individual will report to the Curator-in-Charge of scientific computing, will liaison with colleagues among both the scientific and IT personnel and will be expected to have a hands-on role in all aspects of the management, maintenance, and improvement of these facilities

The position supports the research computing environment of approximately 200 research staff in the disciplines of anthropology, astrophysics, paleontology, geology, and zoology. HPC facilities include a 256 processor 1.8 GHz Xeon cluster, a 128 processor dual-core 3 GHz cluster, a 40 processor UltraSparc cluster, and five special purpose GRAPE VI boards for computing gravitational dynamics.

Qualifications include experience managing HPC clusters; knowledge of Linux, and the Message Passing Interface; knowledge of storage and networking technologies used in HPC environments; demonstrated knowledge of computational and scripting languages needed for HPC; ability to work independently and as part of a team; demonstrated ability to manage large projects within budgeted time and resources; and to translate user needs into technical requirements, and then operational systems. As liaison between the scientific and IT staff, the manager will need to be able to communicate on a professional level with both communities, and function as a scientist and administrator of computing resources. Ph.D. in a scientific field compatible with Museum research required.

Applications should include a resume specifying both computing and research experience, and the names and contact information (including telephone and email address) for three references. Electronic applications will be accepted, in PDF format ONLY.

Compensation will be commensurate with experience. The Museum offers a highly competitive benefits package. One month a year is available for pursuit of original

scientific research broadly related to the interests of the Museum.

All applications received prior to 1 March 2007 will be considered, with further applications being considered until the position is filled. Early application is encouraged. The Museum is an AA/EOE.

---

**No. 23360**

**Assistant Director - Site Director New Mexico Operations**

**NATIONAL RADIO ASTRONOMY OBSERVATORY**

**520 Edgemont Road**

**Charlottesville, VA 22903**

**USA**

**Tel:**

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

***Attention: Director's Office***

The National Radio Astronomy Observatory (NRAO) invites application for the position of Site Director for New Mexico Operations (NRAO Assistant Director) from astronomers interested in providing scientific and programmatic leadership to two major facilities at the Observatory. The NRAO operates as a single Observatory with a suite of complementary and forefront telescope facilities (GBT, EVLA, VLBA and ALMA). With the facilities and other related resources, the NRAO aims to enable the general astronomical community to conduct forefront research using radio astronomy techniques.

This position is responsible for all activities based at the Socorro, NM site, including most importantly the oversight of VLA / EVLA and VLBA operations. The Assistant Director is responsible for EVLA Construction via the EVLA Project Manager as well as for the implementation of EVLA Operations. In addition, the Assistant Director will be responsible for providing leadership in scientific program development, user support, and facility upgrades for the EVLA and the VLBA. The Assistant Director will also be engaged in developments leading towards the Square Kilometre Array (SKA) and Observatory-wide senior management activities.

Requirements include a Ph.D. in astronomy, astrophysics, physics, or a related field, as well as extensive experience in a research organization. Applicants should have a strong record of scientific achievement and leadership in astronomy and significant management experience. In addition, excellent interpersonal and communication skills are required. Women and minorities are especially encouraged to apply. The position is available starting September 1, 2007, or potentially earlier. Further information can be found at [www.nrao.edu](http://www.nrao.edu) for this and other positions.

Applications should be sent to the Director's Office, NRAO, 520 Edgemont Road, Charlottesville, VA 22093-2475, USA, and should include: a letter with a presentation of qualifications for the position, a description of research and technical interests and plans in the context of EVLA and VLBA scientific operations and future development, the names of five scientists who may serve as references, and a curriculum vitae. All application materials received at the above address by February 28, 2007 will receive full consideration. The National Radio Astronomy Observatory is operated by Associated Universities, Inc. (AUI) under cooperative agreement with the National Science Foundation.

The NRAO is an equal opportunity employer. Women and minorities are encouraged to apply (M/F/H/V).

---

**No. 23371**

**Head of Astronomy**

**ANGLO-AUSTRALIAN OBSERVATORY**

**167 Vimiera Road**

**Eastwood, NSW 2122**

**Australia**

**Tel: 02 9372-4863**

**FAX: 02 9372-4860**

**URL1: [www.aao.gov.au/local/www/jobs](http://www.aao.gov.au/local/www/jobs)**

**Email Submission Address: [jobs@ao.gov.au](mailto:jobs@ao.gov.au)**

**Email Inquiries: [director@ao.gov.au](mailto:director@ao.gov.au)**

***Attention: Sue-Ellen Fahey, Personnel Officer***

**AAO HEAD OF ASTRONOMY**

The Anglo-Australian Observatory (AAO) wishes to appoint a new Head of Astronomy (HOA). The HOA is the leader of the Astronomy Group and is responsible for the management and development of the AAO's astronomy program, including the scientific output of AAO staff and users, the research training of students, supervision and mentoring of staff astronomers and fellows. Reporting to the Director, the HOA is a member of the AAO's Senior Executive team responsible for strategic planning for the observatory and its facilities. The HOA will manage the 6 astronomy staff at the AAO and participate in related tasks including staff hiring, budget preparation, resource allocation, and reporting to the AAT Board and Users' Committee.

The position is available from April 2007 and is located at the Epping campus which is also home of the Australia Telescope National Facility. The position will be an indefinite appointment, subject to the satisfactory completion of a 6 month probationary period. The salary will be in the range A\$101,253 to A\$121,839 p.a. plus employer superannuation contributions. A fixed relocation allowance plus other relocation expenses (including airfare to Australia and return on completion of the appointment) will also be paid.

The employment information package may be downloaded from <http://www.aao.gov.au/local/www/jobs>. Applications should be lodged electronically via [jobs@ao.gov.au](mailto:jobs@ao.gov.au) and should include a curriculum vitae, list of publications, a statement of proposed research programs and full contact details (including phone and e-mail) of three referees familiar with the applicant's work. The applicant must arrange for references to be sent before the closing date, which is 1 March 2007.

Further information about the position may be obtained from <http://www.aao.gov.au/local/www/jobs> Questions about the position may be addressed to Professor Matthew Colless, Director, Phone +61 2 9372 4812 or e-mail: [director@ao.gov.au](mailto:director@ao.gov.au)

The Anglo-Australian Observatory is an Equal Opportunity Employer

Supporting documents to be included with application.

- Curriculum vitae, to include career history, education and qualifications, awards and distinctions.
- Full list of publications, separated into (a) accepted papers in refereed journals (b) conference proceedings and other publications. Please do not include papers or preprints with application.
- Brief outline of current research interests and proposed research programs. Contact details (including e-mail and phone) of three referees from whom references may be expected. It is the applicant's responsibility to arrange for

references to be sent before the closing date.

---

**No. 23396**

**Associate Director for Engineering**

**GEMINI OBSERVATORY**

**670 N. A'ohoku Place**

**Hilo, HI 96720**

**USA**

**Tel: 8089742500**

**FAX: 8089742739**

**URL1: [www.gemini.edu](http://www.gemini.edu) (*Gemini Website*)**

**URL2: [www.gemini.edu/jobs](http://www.gemini.edu/jobs) (*Gemini Jobs Page*)**

**Email Submission Address: [gemini-jobs@gemini.edu](mailto:gemini-jobs@gemini.edu)**

***Attention: Human Resources/ADEA***

The Gemini Observatory, an international partnership with telescopes at sites in Hawaii and Chile, is seeking a talented, experienced Associate Director for Engineering. This key member of the staff assures that internal development efforts and engineering/technical operations are being planned and conducted on a sound engineering basis with proper controls and management oversight. A high degree of professionalism and discretion is needed to oversee a large, geographically dispersed, and technically diverse work force of engineers and technicians.

The successful candidate must have a demonstrated ability to work effectively in a team environment, including a track record in establishing programs of excellence and innovation and managing multi-million dollar budgets. Excellent communication skills and the ability to deliver clear presentations are essential. Strong strategic planning skills are needed in order to help fulfill the scientific goals of a forefront research facility. The Associate Director for Engineering must be able to distinguish between and manage competing demands to intelligently lead Gemini's engineering team. Previous experience managing large projects and facilities is necessary. Bachelor's degree in engineering, physics, or related field is required; an advanced degree is preferred. A broad range of backgrounds are advantageous for this position, including astronomy, aerospace, instrumentation, adaptive optics, etc.

The Associate Director for Engineering will be based at Gemini South in La Serena, Chile, though intermittent travel between both Gemini sites will be required. Candidates must have or be able to obtain a valid passport. Employment offers will be contingent upon passing a high-altitude physical exam certifying the ability to work at an elevation of 14,000 feet. Must be fluent in English; fluency in Spanish is a plus. Send current resume with cover letter relating your interest in the position, experience, education, and background to the needs of the position, along with the names and contact information of three individuals familiar with your work/credentials/qualifications from whom a reference may be obtained. Please include AAS Job Register number in your cover letter. Including salary history is appreciated. Cover letters and resumes must be written in English. Applications must be received by March 2, 2007.

---

**No. 23397**

**Associate Director for Administration**

**GEMINI OBSERVATORY**

**670 N. A'ohoku Place**

**Hilo, HI 96720**

**USA**

**Tel: 8089742500**

**FAX: 8089742739**

**URL1: [www.gemini.edu](http://www.gemini.edu) (*Gemini Website*)**

**URL2: [www.gemini.edu/jobs](http://www.gemini.edu/jobs) (*Gemini Jobs Page*)**

**Email Submission Address: [gemini-jobs@gemini.edu](mailto:gemini-jobs@gemini.edu)**

***Attention: Human Resources/ADAA***

The Gemini Observatory, an international astronomical organization operating two optical/infrared 8-meter telescopes in the northern and southern hemisphere, is recruiting an Associate Director for Administration. This key staff member manages and coordinates several activities and groups which are essential to the Observatory's core mission and necessary for the smooth operation of a large international observatory. The Gemini Associate Director for Administration is responsible, through subordinate managers, for the non-scientific and non-engineering infrastructure for the Observatory in both Hemispheres. These include: the business functions: finance, accounting, payroll, procurement, contracting, budget planning and tracking, facilities, property, general administrative support, human resources and immigration; the computer, network, and information systems; and is the primary administrative contact between the Observatory and the site host administrations (Univ. of Hawai'i and the AURA Observatory in Chile), the AURA Corporate office (Washington DC), the other AURA-Centers, and directly or indirectly, the site host communities.

Candidates must demonstrate the ability to manage within a complex, international, forefront, astronomy research organization and to oversee and coordinate a relatively large and diverse work force, distributed in both hemispheres (Hawaii and Chile). Candidates must be able to effectively communicate with scientists, engineers, technologists, and administrators in a research environment. Interested individuals with an advanced degree in science, engineering, or business administration and solid experience in managing and operating large astronomy facilities or similar research organizations are encouraged to apply. Other equivalent training and experience may be considered.

The Associate Director for Administration will be based at the Northern Operations Center in Hilo, Hawaii, and will travel to Gemini South on a regular basis. Candidates must have or be able to obtain a valid passport. Employment offers will be contingent upon passing a high-altitude physical exam certifying the ability to work at an elevation of 14,000 feet. Must be fluent in English; fluency in Spanish is a plus.

Send current resume with cover letter relating your interest in the position, experience, education, and background to the needs of the position, along with the names and contact information of three individuals familiar with your work/credentials/qualifications from whom a reference may be obtained. Please include the JOB CODE in your cover letter. Including salary history is appreciated. Cover letters and resumes must be written in English. Applications must be received by March 2, 2007.

---

**No. 23266 (New)**

**PROFESSOR OF ASTRONOMY**

**INSTITUTO DE ASTRONOMIA**

**AVDA. ANGAMOS 0610**

**ANTOFAGASTA, II REGION 00**

**CHILE**

**Tel: 56 (55) 355480**

**FAX: 56 (55) 355497**

**URL1: <http://www.ia.ucn.cl> (GENERAL INFORMATION ABOUT THE INSTITUTE)**

**Email Submission Address: [astronomia@ucn.cl](mailto:astronomia@ucn.cl)**

**Attention: *MARCUS ALBRECHT, DIRECTOR***

The Instituto de Astronomía (IA) of the Universidad Católica del Norte (UCN), Antofagasta, Chile, invites applications for the position of professor for astronomy. The exact level at which the position is filled will be determined according to experience and track record. The candidate is expected to enhance one of our research programmes which are currently: 1) stellar astrophysics, mainly cataclysmic and other type or variables, as well as open star clusters and their content of variable stars; 2) galactic and extragalactic astrophysics, mainly galactic globular clusters and extragalactic globular cluster systems; 3) extragalactic mm/submm astronomy, mainly molecular gas and dust in galaxies, galaxy evolution, AGN and observational cosmology.

Conditions for employment are a PhD in astronomy or related field and demonstrated experience in observational astronomy. The successful candidate will be expected to teach effectively at the undergraduate and graduate levels. Therefore, command of the Spanish language or willingness to learn it are required. A good command of the English language is expected. The appointee will have access to all of the resources and facilities of the Observatorio Cerro Armazones (OCA) run by the IA (see webpage) and she/he will be expected to dedicate part of her/his time to the development, management and operation of OCA. Moreover, our academic staff has access to the 10% Chilean time share at all telescopes located at international observatories in the country, including APEX, the VLTs, Gemini, and Magellan, in addition to the other telescopes at La Silla, CTIO, ESO and Las Campanas observatories.

Interested candidates should send their applications including CV, publication list, short description of science interests and research plans (no more than two pages) and arrange to have two letters of recommendation sent to the following address:

Instituto de Astronomía Universidad Católica del Norte Avenida Angamos 0610  
Antofagasta Chile Email: [astronomia@ucn.cl](mailto:astronomia@ucn.cl)

Applications by email are preferred and may be sent by December 31 2006. All applications received by the deadline will have full consideration. For further information please contact: Dr. Marcus Albrecht ([malbrecht@ucn.cl](mailto:malbrecht@ucn.cl))

---

**No. 23417 (New)**

**Lecturer in Physics and Astronomy**

**UNIVERSITY OF WISCONSIN-STEVENS POINT**

**Department of Physics and Astronomy**

**2001 Fourth Avenue**

**Stevens Point, WI 54481**

**US**

**Tel: 715-346-2139**

**FAX: 715-346-2944**

**Email Submission Address: [dtamres@uwsp.edu](mailto:dtamres@uwsp.edu)**

**Email Inquiries: [dtamres@uwsp.edu](mailto:dtamres@uwsp.edu)**

**Attention: *Dr. David Tamres***

Lecturer in Physics and Astronomy University of Wisconsin-Stevens Point Applications

are invited for a full-time, limited-term instructional academic staff position for the 2007-08 and 2008-09 academic years. Candidates must have a primary interest and skill in teaching undergraduate introductory astronomy and possibly introductory physics. Master's degree in astronomy, physics, or closely related area is required. PhD preferred. The ability to work collaboratively with diverse faculty, staff, and students is also required. Teaching experience is desirable. Appointment is expected at the lecturer level. Salary and title will be commensurate with qualifications and experience. Please provide a letter of application, resume, photocopies of academic transcripts (official transcripts will be required prior to the time of hire) and a statement of teaching philosophy. Also arrange for three current letters of reference to be sent to Dr. David Tamres, Department of Physics and Astronomy, University of Wisconsin-Stevens Point, Stevens Point, WI 54481. Review of applications will begin on March 1, 2007. The University of Wisconsin-Stevens Point is an EEO/AA employer.

---

**No. 23437 (New)**

**Lecturer in Astrophysics**

**UNIVERSITY OF QUEENSLAND**

**Faculty of Engineering, Physical Sciences and Architecture**

**University of Queensland, QLD 4072**

**Australia**

**Tel: +61 7 3365 7922**

**URL1: <http://astronomy.swin.edu.au/wigglez/> (*Our WiggleZ Dark Energy Survey*)**

**URL2: <http://www.physics.uq.edu.au/ap/> (*The UQ Astrophysics Group*)**

**URL3: <http://www.physics.uq.edu.au/ap/jobs.php> (*Application details and instructions*)**

**Email Submission Address: [r.assenheim@epsa.uq.edu.au](mailto:r.assenheim@epsa.uq.edu.au)**

**Email Inquiries: [m.drinkwater@uq.edu.au](mailto:m.drinkwater@uq.edu.au)**

***Attention: Ms Rhonda Assenheim, Human Resource Consultant***

Fixed-term Lecturer in Astrophysics

In the role of Lecturer, you will undertake undergraduate and postgraduate teaching plus postgraduate supervision. As well you will perform research, administrative and other activities associated with the School and its research activities. You will be a dynamic and innovative astrophysicist with internationally recognised excellence in research, and an inspired teacher of both undergraduate and postgraduate students in Physics. We are particularly interested in applicants with experience in cosmology who wish to join our WiggleZ Dark Energy Galaxy Survey using the Anglo-Australian Telescope. This is an exciting opportunity to join a research program with world-class facilities.

You must possess postgraduate qualifications (PhD or equivalent) in Astrophysics.

This is a full-time, fixed term appointment for 2 years at Academic level B. The remuneration package will be in the range \$77,514 to \$92,048 per annum including employer superannuation contributions of 17%.

Closing Date for Applications: 20 March 2007

Reference Number: 3000859

Informal enquiries should be made to Associate Professor Michael Drinkwater ([m.drinkwater@uq.edu.au](mailto:m.drinkwater@uq.edu.au)).

Full details of the position and application instructions can be found at

<http://www.physics.uq.edu.au/ap/jobs.php>

---

**No. 23457 (New)**

**Research Assistant Professor in Astrochemistry/Astrobiology**

**UNIVERSITY OF HONG KONG**

**China**

**Tel:**

**URL1: [https://extranet.hku.hk/cgi-bin/apptunit/senior/show\\_vacancy.pl?rf2006-309-0000-20070131](https://extranet.hku.hk/cgi-bin/apptunit/senior/show_vacancy.pl?rf2006-309-0000-20070131)**

**Email Submission Address: [apptunit@hku.hk](mailto:apptunit@hku.hk)**

**Email Inquiries: [sunkwok@hku.hk](mailto:sunkwok@hku.hk)**

***Attention: Appointments Unit***

Applications are invited for a position as Research Assistant Professor (Ref: RF-2006/2007-309) which is part of the Centenary Recruitment Plan at the University of Hong Kong. Appointments will be made for a period of 3 years, and in some research areas of strategic choice the appointment may be renewable for a further period of 3 years.

The primary role of an RAP is research and postholders now recruited are expected to devote at least 90% of their time to research. Applicants must be research active and have a proven publication record.

We seek a candidate with research experience in one of the following areas: (i) astronomical observations of interstellar molecules; (ii) laboratory spectroscopy of molecules and solids of astronomical interest; (iii) remote detection of biosignatures in the solar system; (iv) detection of biosignatures and/or ecological modeling in hyperarid deserts as Mars analogues; or (v) molecular mechanisms of tolerance to ultraviolet and ionizing radiation in a simulated Martian environment.

The successful candidate will be appointed to one or more of the following departments: physics, chemistry, and biological sciences and is expected to contribute to interdisciplinary research in the Faculty of Science. For details of research in these areas at HKU, please contact Prof. Sun Kwok, Dean of Science ([sunkwok@hku.hk](mailto:sunkwok@hku.hk)).

Further particulars and application forms (272/302 amended) can be obtained at <https://www.hku.hk/apptunit/> ; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: [senrapp@hkucc.hku.hk](mailto:senrapp@hkucc.hku.hk)). Closes March 31, 2007.

---

**No. 23345**

**Lectureship in Galactic Structure and Evolution**

**MULLARD SPACE SCIENCE LABORATORY, UNIVERSITY COLLEGE**

**LONDON**

**Holmbury St Mary**

**Dorking, Surrey RH5 6NT**

**UK**

**Tel: 01483 204110**

**FAX: 01483 278312**

**URL1: [http://www.ucl.ac.uk/hr/docs/download\\_forms/job\\_app.doc](http://www.ucl.ac.uk/hr/docs/download_forms/job_app.doc) (*job application document*)**

**URL2: [http://www.mssl.ucl.ac.uk/~msc/Gaia\\_lectureship\\_person\\_spec.htm](http://www.mssl.ucl.ac.uk/~msc/Gaia_lectureship_person_spec.htm) (*job and person specification*)**

**Email Submission Address:** [ead@mssl.ucl.ac.uk](mailto:ead@mssl.ucl.ac.uk)

**Email Inquiries:** [mssc@mssl.ucl.ac.uk](mailto:mssc@mssl.ucl.ac.uk)

**Attention:** *Libby Daghorn, Mrs*

A new lectureship post in Galactic Structure and Evolution has been created within the Astrophysics Group at Mullard Space Science Laboratory, UCL, underpinned by our strong involvement in the upcoming Gaia and Herschel missions. A track record in the field is desirable but not essential, and applications are invited from all candidates with significant accomplishments and promise for future achievements. The successful applicant will be expected to pursue a vigorous research programme in Galactic structure and evolution and to build MSSL/UCL capability and visibility in this field. The candidate will also fulfill a modest teaching responsibility at undergraduate and postgraduate level. Candidates wishing to transfer a long term fellowship are welcome to apply.

Salary in the Lecturer range: £29,138 to £39,160, plus some relocation benefits. The appointment grade will be commensurate with accomplishment and experience.

Informal enquiries may be made to Prof Mark Cropper ([mssc@mssl.ucl.ac.uk](mailto:mssc@mssl.ucl.ac.uk)). Application forms can be downloaded from [job\\_app.doc](#). More details on the post, and the person specification can be found on [person\\_spec](#). Applications, accompanied by full CV, including statement of research interests and plans, contact details of 3 referees, should be sent to Libby Daghorn ([ead@mssl.ucl.ac.uk](mailto:ead@mssl.ucl.ac.uk)).

---

**No. 23407**

**Visiting Assistant Professor of Physics**

**BATES COLLEGE**

**2 Andrews Rd 7 Lane Hall**

**Lewiston, ME 04240**

**Tel:**

***Attention: Physics and Astronomy Search R2364***

The Bates College Department of Physics and Astronomy invites applications from physicists and astrophysicists for a position as Visiting Assistant Professor for 2007-08 with likely renewal for 2008-09. The successful candidate must demonstrate interest in teaching in a vigorous undergraduate program, welcome the opportunity for close interaction with students, and be able to guide research by advanced undergraduate physics majors. Outstanding applicants who are ABD will be considered. Salary is competitive. Review of applications begins March 1, 2007 and will continue until the position is filled. Please mail a letter of application, curriculum vitae, brief statement of teaching and research interests, copies of graduate and undergraduate transcripts and three letters of recommendation to:

Physics and Astronomy Search R2364 c/o Bates College Academic Services 2 Andrews Rd., 7 Lane Hall Lewiston, ME 04240 Bates College values a diverse college community and seeks to assure equal opportunity through a continuing and effective Affirmative Action Program.

---

**No. 23309**

**Astronomy Instructor**

**GUILFORD TECHNICAL COMMUNITY COLLEGE**

**601 High Point Road**

**P. O. Box 309**

**Jamestown, NC 27263**

**Tel:**

**URL1:** <http://technet.gtcc.cc.nc.us/jobs/> (*GTCC Jobs Page*)

**URL2:** <http://www.gtcc.edu/observatory> (*GTCC Cline Observatory Home Page*)

**URL3:** <http://technet.gtcc.cc.nc.us/comserv/cline/2004aasatldisplay.pdf> (*2004 AAS Poster about Cline Observatory*)

**Email Inquiries:** [dcclark@gtcc.edu](mailto:dcclark@gtcc.edu)

**Attention:** *Human Resources*

F/T regular position needed to teach astronomy & contribute to the management & maintenance of the Cline Observatory & participate in observatory outreach programs. Qualifications: Master's degree with a minimum 18 graduate semester hours in astronomy required. For application visit our website: [www.gtcc.edu](http://www.gtcc.edu) or call (336) 454-1126 ext. 2404. Applicants must submit an unofficial transcript with application. Open until filled. EOE

**No. 23418 (New)**

**SAO Predoctoral Fellowship 2007**

**SMITHSONIAN ASTROPHYSICAL OBSERVATORY**

**Tel:**

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

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

**Attention:** *Fellowship Program Coordinator*

Smithsonian Astrophysical Observatory Predoctoral Fellowship Program 2007-2008

The Smithsonian Astrophysical Observatory (SAO) announces the availability of predoctoral fellowships beginning in July 2007, 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 approximately \$26,640 for the coming year. Funds are also provided for health benefits and relocation expenses. Applications are due by April 16, 2007.

Application forms and instructions are available at: <http://www.cfa.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. 23430 (New)**

**Professorship in Astrophysics**

**ARGELANDER-INSTITUT F. ASTRONOMIE, BONN UNIVERSITY**

**Endenicher Allee 11-13**

**Germany**

**Tel:**

**URL1:** [http://www.physik-astro.uni-bonn.de/index\\_e.html](http://www.physik-astro.uni-bonn.de/index_e.html) (*Dept. of Physics and*

*Astronomy, Bonn U.)*

**URL2:** <http://www.astro.uni-bonn.de/~webaiub/english/index.php> (*Argelander-Institut f. Astronomie*)

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

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

**Attention:** *Vorsitzender der Fachgruppe Physik-Astronomie*

The Mathematisch-Naturwissenschaftliche Fakultät at the University of Bonn has an immediate opening for a Faculty Position (Professur W2) in Astrophysics at the Argelander-Institut für Astronomie.

The Department of Physics and Astronomy invites applications for a tenured Professorship from candidates with a superb curriculum in theoretical astrophysics. Particularly invited to apply are candidates whose area of research is cosmology, structure formation, evolution of galaxies and clusters, IGM or related fields. Collaborations with other astronomy and/or physics groups in Bonn are welcome, as well as participation in the Transregional Collaborative Research Center 'The Dark Universe' and the DFG-Priority Programme 'Evolution of Galaxies'. Astronomical research at Bonn University includes, among others, structure and dynamics of galaxies, ISM and the dark matter distribution. The candidates are expected to teach regular courses in astrophysics (Diplom, B.Sc., M.Sc.).

The University of Bonn is an equal opportunity employer and encourages applications from female scientists. The University of Bonn is committed to employing more handicapped individuals if equally qualified and especially encourages them to apply. Applications including a CV, copies of academic certificates, a list of publications, and a statement of research interests should be sent until March 04, 2007 to: Vorsitzender der Fachgruppe Physik-Astronomie, Endenicher Allee 11-13, D-53115 Bonn, Germany.

---

**No. 23441 (New)**

**Electronics Engineer**

**JOINT ASTRONOMY CENTRE**

**2350 Dole Street**

**Sakamaki Hall D-100**

**Honolulu, Hawaii 96822**

**USA**

**Tel: 808/956-3100**

**FAX: 808/956-5022**

**URL1:** <http://www.rcuh.com> (*RCUH*)

**URL2:** <http://www.jach.hawaii.edu/admin/employment> (*Joint Astronomy Centre*)

**Email Inquiries:** [jobs@jach.hawaii.edu](mailto:jobs@jach.hawaii.edu)

**Attention:** *Director of Human Service*

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

You will work in the Engineering & Technical Services (ETS) Division with overall responsibility for the electrical/electronics engineering activities on UKIRT and JCMT, including maintenance, development and upgrades associated with the telescope and instruments, establishment and supervision of preventative maintenance programs, routine maintenance of instrumentation, and responsibility for all power distribution to the telescope sites.

You will interact closely with the scientific, software, and mechanical groups and be expected to acquire a working knowledge of key telescope systems.

Required: Bachelor's degree in Electronic Engineering or closely related discipline (equivalent level of experience and/or other training may be acceptable). 2-4 years' postgraduate experience working with electronic systems in a research/development environment or astronomical facility. Valid driving license and ability to drive 4-wheel vehicles with manual transmission (or ability to drive these vehicles following training provided). Sound understanding of motion and process controls, analog and digital design and interfacing with micro computers; knowledge of telescope and instrument systems and ability to contribute to modification efforts; troubleshooting ability and proficiency with laboratory test equipment; good working knowledge of CAD systems; good communication skills.

Desirable: Knowledge of modern communications equipment, power distribution and data acquisition systems; signal processing, servo systems including MATLAB/Simulink, PLC systems, cryogenic systems and high vacuum equipment; experience with AutoCAD and PCB design using OrCAD or similar design software.

Post Offer/Employment Conditions: Able to work at 14,000 feet; pass high-altitude medical examination.

Includes a relocation package and comprehensive benefits. Salary commensurate with experience.

Inquiries contact Ian Midson (808) 969-6526 or email [jobs@jach.hawaii.edu](mailto:jobs@jach.hawaii.edu)

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

Application Requirements: For application instructions, please go to [www.rcuh.com](http://www.rcuh.com) and click on "Employment" to access the "Employment Information Page." EEO/AA Employer

Closing Date: 2 March 2007

---

**No. 23195****UNIVERSE AWARENESS (UNAWE) INTERNATIONAL OFFICE: MEDIA AND MATERIALS COORDINATOR****LEIDEN OBSERVATORY****Tel:****URL1: <http://www.universeawareness.org>****Email Submission Address: [drost@strw.leidenuniv.nl](mailto:drost@strw.leidenuniv.nl), [odman@strw.leidenuniv.nl](mailto:odman@strw.leidenuniv.nl).****Email Inquiries: [odman@strw.leidenuniv.nl](mailto:odman@strw.leidenuniv.nl)*****Attention: Dr. Carolina Odman***

Universe Awareness (UNAWE) is an international programme to expose economically disadvantaged young children to inspirational aspects of modern astronomy. By giving children from the age of 4 a feeling for the beauty and size of the Universe, UNAWE will help broaden their minds and form internationally minded and tolerant adults. The programmes will be implemented using a "bottom-up approach" in several developing countries and a few member states of the European Union, starting in 2009.

We seek a UNAWE Media and Materials Coordinator (MMC) starting about 1 January 2007. Their main function will be to organise the creation and production of entertaining UNAWE prototype material for use in prime UNAWE target countries, in close

collaboration with UNAWE participants in these countries.

Tasks will include (i) researching existing tools for astronomical outreach to young children, (ii) assembling a wish-list of new material, (iii) initiating the development of prototype materials with creative writers, animation films studios and game manufacturers.

In addition, the MMC will act as Deputy Project Manager/Coordinator of UNAWE, with involvement in all aspects of the programme.

The successful candidate should have:

- \* Proven organisational abilities, people skills and independent initiative
- \* Ability to write proposals
- \* Enthusiasm for the project and the will to make it succeed.
- \* Background and/or experience in one of the following fields: astronomy, creative media, child development, and international development.

The MMC will be based at Leiden Observatory and will work closely with the initiator and the Project Manager of UNAWE, Prof. George Miley and Dr. Carolina Ödman. The appointment will be for a period of 2 years, with the possibility of a third year. Motivated applications including a CV should be sent to Ms. Jeanne Drost before 1 February 2007, with recommendations from at least 2 referees. Email [drost@strw.leidenuniv.nl](mailto:drost@strw.leidenuniv.nl), with a copy to [odman@strw.leidenuniv.nl](mailto:odman@strw.leidenuniv.nl).

---

**No. 23399**

**Information Technology/Information Assurance  
NAVAL OBSERVATORY FLAGSTFF STATION  
10391 W Naval Observatory Rd  
FLAGSTAFF, AZ 86001-8521  
United States**

**Tel:**

**FAX: 928 779-5132**

**Email Submission Address: [sel@nofs.navy.mil](mailto:sel@nofs.navy.mil)**

**Email Inquiries: [sel@nofs.navy.mil](mailto:sel@nofs.navy.mil)**

***Attention: Stephen Levine***

The U.S. Naval Observatory Flagstaff Station (NOFS) has an immediate opening for a position in Information Technology/Information Assurance (IT/IA). This is a regular civil service position and is expected to lead to a permanent staff appointment at the Flagstaff Station. We are looking for candidates who can start in this position as soon as possible.

The Flagstaff Station has a very heterogeneous computing environment involving Linux (predominantly), Windows, and Macintosh operating systems. Applications include real-time telescope and instrument control, data acquisition, scientific workstations, administrative workstations, and a Windows Active Directory Server.

The job will primarily involve the systems administration of the machines and assuring full compliance with the Navy's Information Assurance policies. Tasks will involve planning, installing and maintaining hardware, operating systems, and applications software; managing accounts and access; troubleshooting; managing the local area network configuration; and implementing/enforcing compliance with Information Assurance policies. Demonstrated experience in these areas with some or all of our

operating systems is highly desirable. Additionally, the ability to program in C, Fortran, and shell scripting would be viewed favorably, especially experience with developing and maintaining telescope and astronomical camera control systems.

It is expected that the position will be filled at the Federal Government civil service GS-11, GS-12, or GS-13 level, depending upon the experience, qualifications, and salary history of the successful applicant. U.S. citizens will be given hiring preference.

Applicants should send a discussion of their relevant employment history and contact information for three professional references (who will only be contacted after a short-list is established) to sel@nofs.navy.mil (email preferred) or hardcopy to Stephen Levine, Naval Observatory Flagstaff Station, 10391 W Naval Observatory Rd, Flagstaff AZ 86001-8521, USA. Applications received prior to 31 January 2007 will be given preference.

---

**No. 23402****Telescope Engineer/Scientist****CARNEGIE INSTITUTION OF WASHINGTON****Tel:****URL1:** <http://www.ociw.edu/> (*Carnegie Observatories home page*)**URL2:** <http://www.lco.cl/lco/index.html> (*Las Campanas Observatory home page*)**Email Submission Address:** [mmp@lcoeps1.lco.cl](mailto:mmp@lcoeps1.lco.cl)**Email Inquiries:** [mmp@lcoeps1.lco.cl](mailto:mmp@lcoeps1.lco.cl)**Attention:** *Dr. Mark Phillips, Associate Director*

The Observatories of the Carnegie Institution of Washington on behalf of the Magellan Telescopes consortium are seeking an engineer or scientist with experience in modern telescope opto-mechanical systems to work at the Las Campanas Observatory in Chile, in support of operations of the two 6.5 meter Magellan Telescopes. Among the primary tasks of this position are to monitor the scientific performance of the telescopes, to design algorithms and systems to optimize wide-field imaging and tracking, and to participate in the planning and implementation of future additions to the telescopes such as adaptive optics. The successful candidate will supervise the telescope controls programmers, and will be responsible for carrying out telescope tests and improvements during scheduled engineering time.

The Las Campanas Observatory is located 160 km north of La Serena, Chile. The site is one of the finest on the planet in terms of natural seeing, enabling the Magellan telescopes to regularly achieve 0.5 arcsec FWHM image quality or better. Ideally, the successful candidate will be resident in La Serena, and will divide his/her time between the mountain and the Observatory offices in La Serena.

Minimum requirements are: an advanced degree in optical sciences or a Ph.D. in astronomy, physics, or related field. Five or more years of experience working with large ground- or space-based optics may be substituted for some degree requirements. Knowledge of Spanish is an asset, but is not required. The starting date for this position is July 1, 2007, or as soon thereafter as possible.

Applications should be sent by email to Dr. Mark Phillips (mmp@lco.cl) by March 1, 2007. Requests for additional information should be sent to the same address. Applicants should include a current vita including a list of publications, a statement of experience relevant to this position, and the names of three references.

The Carnegie Institution is an Affirmative Action/ Equal Opportunity employer.

---

**No. 23405 (New)**

**Postdoctoral Position in Star Formation**

**SMITHSONIAN ASTROPHYSICAL OBSERVATORY**

**60 Garden Street**

**Cambridge, MA 02138**

**USA**

**Tel: 617 496 7887**

**FAX: 617 495 7345**

**URL1: <http://www.cfa.harvard.edu> (*Harvard-Smithsonian Center for Astrophys*)**

**URL2: <http://ssc.spitzer.caltech.edu/legacy> (*Spitzer Legacy Science Program*)**

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

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

***Attention: Dr. Lori Allen***

Applications are invited for the position of postdoctoral fellow at the Smithsonian Astrophysical Observatory (SAO) of the Harvard-Smithsonian Center for Astrophysics for a recent recipient of the Ph. D. degree, with expertise and interests in observational and analytical studies of star formation. The applicant should have experience with observations of star-forming regions in the infrared, and/or in molecular spectral lines and/or in continuum emission at centimeter, millimeter, or submillimeter wavelengths; should have a record of publications or achievements which have advanced our knowledge of star formation; and should be interested in pursuing a program of observations and analysis, with emphasis on physical conditions and processes in star-forming regions. Familiarity with aperture synthesis techniques is desirable.

The successful applicant will participate in the analysis and interpretation of Spitzer data acquired in the Gould's Belt Legacy program, and will obtain, reduce, and analyze supporting ground-based observations using facilities such as the SMA and the MMT. Some processing of Spitzer data may be required.

The position is for two years, with extension to a third year possible, contingent on performance and funding. The stipend is \$50,000, beginning fall 2007. Interested candidates should submit a curriculum vita, a bibliography and a statement of research interests and plans, and should arrange for three letters of recommendation to be sent by the deadline. All materials should be sent to Dr. L. Allen at the above address or by e-mail before 15 March 2007. The Smithsonian Observatory is an AAE/EEO employer.

---

**No. 23410 (New)**

**Postdoctoral : Center for Particle Astrophysics**

**FERMI NATIONAL ACCELERATOR LABORATORY**

**Tel:**

**URL1: <http://www.fnal.gov> (*Fermilab Home Page*)**

**URL2: <http://lss.fnal.gov/employ> (*Jobs at Fermilab*)**

**Email Submission Address: [PACF\\_postdoc\\_apps@fnal.gov](mailto:PACF_postdoc_apps@fnal.gov)**

**Email Inquiries: [PACF\\_postdoc\\_apps@fnal.gov](mailto:PACF_postdoc_apps@fnal.gov)**

***Attention: Dr. Wyatt Merritt, Chair, PACF Postdoc Committee***

The Center for Particle Astrophysics at Fermilab invites applicants for postdoctoral research associate positions, to conduct experimental research in particle astrophysics in collaboration with one of the experimental groups associated with the Center. The groups currently consist of the Pierre Auger Observatory, the Sloan Digital Sky Survey (SDSS),

the Cryogenic Dark Matter Search (CDMS), the COUPP experiment, the Dark Energy Survey (DES), and the Supernova Acceleration Probe (SNAP). These experiments cover a wide range of topics in the forefront of experimental astrophysics, and deploy instruments from South America to northern Minnesota to Earth orbit. They promise exciting opportunities in instrumentation and analysis for a young researcher, with graduate work completed in either particle astrophysics or particle physics. The laboratory maintains a vibrant research environment for its scientific staff, including colloquia, seminars, and travel support. The Center for Particle Astrophysics at Fermilab provides a venue for experimental and theoretical particle astrophysicists to work on forefront research problems in a setting encouraging interaction and collaboration. Appointments are normally for three years with one-year renewals possible thereafter. Every effort will be made to maintain support for a Fermilab RA until he/she has the opportunity to produce physics results. Applications and requests for information should be directed to Dr. Wyatt Merritt, Chair, PACF Postdoc Committee via [PACF\\_postdoc\\_apps@fnal.gov](mailto:PACF_postdoc_apps@fnal.gov). Applications should include a curriculum vitae, publication list and three letters of reference. Fermilab is an Equal Opportunity Employer-M/F/D/V

---

**No. 23411 (New)**  
**Planetary Sciences**  
**UNIVERSITY OF ARIZONA**  
**Tel:**  
**URL1: [www.hr.arizona.edu](http://www.hr.arizona.edu)**

*Attention: Glinda Davidson*

The University of Arizona wishes to fill 2 positions at the level of postdoctoral Research Associate in the Department of Planetary Sciences and Lunar and Planetary Laboratory. The primary focus of these positions will be to conduct research on problems related to bodies in the Saturn system using (at a minimum) data from the Visual and Infrared Mapping Spectrometer onboard the Cassini Spacecraft. Any area of focus will be considered, but preference will be given to candidates that are interested in doing research into physical/chemical/geological processes affecting the surfaces of the icy moons of Saturn and/or the surface of Titan. The successful candidates must have recently received a Ph.D. in Planetary Sciences or Astronomy, and be capable of the reduction, analysis and interpretive modeling of imaging spectrometric datasets; direct experience with imaging spectrometric data sets is preferred, but not absolutely necessary. One of the appointments will commence on March 1, 2007 and the other on May 1, 2007. Salary will be competitive and commensurate with experience. To apply online and for further job details, please see [www.hr.arizona.edu](http://www.hr.arizona.edu) and reference job #35858. The University of Arizona is an EEO/AA employer M/W/D/V.

---

**No. 23412 (New)**  
**Long-Term Postdoctoral Position in QSO Absorption Spectroscopy**  
**UNIVERSITY OF POTSDAM, INSTITUTE OF PHYSICS**  
**Am Neuen Palais 10**  
**z.H. Frau Andrea Brockhaus**  
**Germany**  
**Tel:**  
**Email Submission Address: [prichter@astro.uni-bonn.de](mailto:prichter@astro.uni-bonn.de)**  
**Email Inquiries: [prichter@astro.uni-bonn.de](mailto:prichter@astro.uni-bonn.de)**

*Attention: Philipp Richter, Dr.*

The physics department of the University of Potsdam, Germany, invites applications for one long-term postdoctoral position in QSO absorption spectroscopy. The successful candidate will work in the newly established astrophysics group of Prof. Philipp Richter at the University of Potsdam (starting April 2007) and is expected to carry out an independent research program in this field. The candidate also will be responsible for the supervision of several undergraduate and graduate students at the University of Potsdam.

Current research projects in the group of P. Richter include optical and FUV studies on the Ly alpha forest, intervening OVI absorption line systems, Galactic high-velocity clouds and the small-scale interstellar medium. Other astrophysical research activities at the physics department concentrate on the properties of hot stars and stellar winds. In addition to the University and its physics department, Potsdam hosts the Astrophysikalisches Institut Potsdam (AIP), which represents one of the largest research institutes on astrophysics in Germany. There is a lively scientific interaction between the various astrophysics groups at the University and the AIP. Potsdam - located just a few kilometres south-west of Germany's lively capital Berlin - thus offers a stimulating environment for astrophysical research.

Applicants are expected to hold a PhD in astronomy or astrophysics and should have at least 2 years of experience as a postdoctoral researcher. A strong background in absorption spectroscopy and ISM/IGM science is essential. The post is available from April 2007 and should be filled no later than July 2007. The initial appointment of this position is for 3 years, with the possibility for an extension by another 3 years. The salary is based on the German civil service level (TV-L 13 or 14, depending on qualification).

Applicants should submit their application (including CV, publication list, and brief statement of research interests) to the address listed above. Full consideration will be given to applications arriving before March 05, 2007; later applications will be considered until the post is filled. Applicants also should arrange for three letters of recommendation to be sent to the same address. Potsdam is an equal opportunity employer and particularly welcomes applications from women and minorities.

---

**No. 23419 (New)**

**Postdoctoral Position in Astrophysics**

**UNIVERSITY OF COLORADO**

**Campus Box 389**

**Boulder, CO 80309-0389**

**USA**

**Tel: 303-735-2640**

**FAX: 303-492-7178**

**URL1: <http://casa.colorado.edu/> (CASA web site)**

**Email Submission Address: [arav@colorado.edu](mailto:arav@colorado.edu)**

**Email Inquiries: [arav@colorado.edu](mailto:arav@colorado.edu)**

**Attention: Nahum Arav**

The University of Colorado at Boulder is the PI institution for the Cosmic Origins Spectrograph (COS). COS is a new, highly sensitive ultraviolet spectrograph that will be installed into the Hubble Space in 2008. As part of its mission, the COS team has guaranteed time with HST to execute a science program. To support this science program the COS team at the University of Colorado intends to make several post-doctoral level hires. The position advertised here is connected with studies of AGN outflows and related science. The hired post-doc will work directly with Dr. Arav on various projects related to

AGN outflows, including the analysis of COS data, as well as ground based observations. Experience with analyzing absorption data from HST/STIS, FUSE, and/or ground based Echelle data is desirable. Expertise in any aspect of AGN outflows will also be of interest. This position will be appointed for a minimum of one year, normally renewable for up to three years. Starting date will be around September 2007. Applicants should send vita, bibliography, and description of research interests by 15 March 2007 to Dr. Arav at the above address. Please arrange for three letters of reference to be sent. e-mail submission of all materials is encouraged. The University of Colorado is committed to diversity in education and employment.

---

**No. 23421 (New)**

**Postdoctoral research fellow position in Solar Physics**

**INSTITUTE OF THEORETICAL ASTROPHYSICS, UNIVERSITY OF OSLO**

**University of Oslo**

**P.O. Box 1032 Blindern**

**Oslo, Norway N-0315**

**Norway**

**Tel: +47-22856357**

**FAX: +47-22856339**

**URL1: <http://www.astro.uio.no> (Institute homepage)**

**Email Submission Address: [gro.corell@matnat.uio.no](mailto:gro.corell@matnat.uio.no)**

**Email Inquiries: [mats.carlsson@astro.uio.no](mailto:mats.carlsson@astro.uio.no)**

**Attention: Gro Corell, Senior Executive Officer**

A position as postdoctoral research fellow at the Institute of Theoretical Astrophysics of the University of Oslo is available from 1st July, 2007. The position is for three years.

The applicant should hold a Ph.D. degree in physics, astrophysics or a closely related subject. The position is connected to the project "Norwegian Utilization of the Swedish Solar Telescope on La Palma", funded by the Research Council of Norway. The successful applicant is expected to carry out observational research with this world leading facility for high resolution solar imaging, polarimetry and spectroscopy.

Pay grade: 54 - 58 (NOK 389600 - 418400) depending on qualifications

CV, list of publications, documentation of higher education with exam marks, and two letters of reference to be sent, marked Ref no. 07/492, to: The Faculty of Mathematics and Natural Sciences, University of Oslo, att. Senior Executive Officer Gro Corell, P.O. Box 1032 Blindern, N-0315 Oslo, Norway, e-mail: [gro.corell@matnat.uio.no](mailto:gro.corell@matnat.uio.no).

Application papers will not be returned.

---

**No. 23423 (New)**

**Postdoctoral research position in astrophysics - UNIVERSITY OF VALPARAISO, CHILE**

**DEPARTAMENTO DE FISICA Y ASTRONOMIA, UNIV. DE VALPARAISO**

**Tel:**

**Email Inquiries: [vmotta@dfa.uv.cl](mailto:vmotta@dfa.uv.cl)**

**Attention: [vmotta@dfa.uv.cl](mailto:vmotta@dfa.uv.cl)**

The Department of Physics and Astronomy of the Universidad de Valparaiso, Chile, invites applications for a postdoctoral position, preferentially for observational and/or

theoretical studies of galaxies and gravitational lenses. However, applications from other areas which coincide with the research profile of our Group (see web page [www.dfa.uv.cl](http://www.dfa.uv.cl)) will also be considered. The post-doc will be encouraged to perform an independent research program, using mainly the observing facilities offered by ESO. The position is initially for two years, with the possibility of a third year extension. The starting date should be between May 1 and August 1, 2007.

The successful candidate will have full access to the 10% of Chilean observing time at the international telescopes operating in Chile, as ESO (VLT and La Silla), APEX, Gemini South, SOAR, Magellan, and to the other telescopes at Cerro Tololo and Las Campanas observatories.

Valparaiso is, together with the neighboring town Viña del Mar, the most important urban center of Chile, outside the capital Santiago. It also hosts one of the largest concentrations of Universities in Chile. The Universidad de Valparaiso has recently created a rapidly growing research group in astrophysics which currently numbers seven professors. Informal enquiries are welcomed and should be made to Professor Dr. Veronica Motta ([vmotta@dfa.uv.cl](mailto:vmotta@dfa.uv.cl))

Applicants should send, before 31 March 2007, and by e-mail, their CV, publication list, statement of research interests, and arrange for two letters of recommendation. –

**No. 23425 (New)**

**Postdoctoral position in Chandra data analysis/ high-energy astrophysics/ Cosmology  
UNIVERSITY OF ALABAMA IN HUNTSVILLE**

**Tel:**

**URL1:** <http://www.uah.edu/physics/index.html> (*UAH Physics Department*)

**URL2:** <http://xanth.msfc.nasa.gov/xray/index.html> (*NASA/NSSTC X-ray astronomy*)

**URL3:** <http://nsstc.org> (*NSSTC*)

**Email Inquiries:** [bonamem@uah.edu](mailto:bonamem@uah.edu), [martin.c.weisskopf@nasa.gov](mailto:martin.c.weisskopf@nasa.gov)

**Attention:** [bonamem@uah.edu](mailto:bonamem@uah.edu), [martin.c.weisskopf@nasa.gov](mailto:martin.c.weisskopf@nasa.gov)

The Physics Department at the University of Alabama in Huntsville (UAH) anticipates an opening for a postdoctoral research associate in X-ray astrophysics. Preference will be given to the following areas: Chandra X-ray observations and cosmology using galaxy clusters, Sunyaev-Zel'dovich Effect observations of clusters, experimental high-energy astrophysics, specifically X-ray optics and focal-plane array detector development (see URL2), and Chandra X-ray observations of galactic and extragalactic sources. The candidate will also be encouraged to pursue original research in other fields of his/her own choice.

Requirements for this position are: a Ph.D. in Physics or Astronomy, experience with astronomical software and/or computer programming skills, previous experience in any of the fields above.

The position is initially for 1 year, and can be extended yearly subject to availability of funds and performance. The research will be conducted at the National Space Science and Technology Center, a joint UAH/NASA facility located on the UAH campus (see URL3). Salary is commensurate with qualification and experience.

Application should be emailed to Prof. Max Bonamente ([bonamem@uah.edu](mailto:bonamem@uah.edu)), and should include a curriculum vitae, a list of publications, a brief summary of research experience, a copy of undergraduate and graduate transcripts, and the name and contact information (email and phone number) of three persons willing to provide references. Starting date can

be as soon as June 2007, and is negotiable.

UAH is an Affirmative Action/Equal Opportunity Employer. Application from women and minority is encouraged.

---

**No. 23428 (New)**

**Postdoc Position in Experimental High Energy Astrophysics**

**RICE UNIVERSITY**

**6100 Main St.**

**MS 108**

**Houston, TX 77005-1892**

**USA**

**Tel: 713-348-3640**

**FAX: 713-348-3690**

**URL1: <http://astroparticlelab.rice.edu> (Group Website)**

**URL2: [http://cohesion.rice.edu/naturalsciences/physics/blank.cfm?doc\\_id=9115](http://cohesion.rice.edu/naturalsciences/physics/blank.cfm?doc_id=9115) (G. K. Walters Fellowship)**

**Email Submission Address: [oberlack@rice.edu](mailto:oberlack@rice.edu)**

**Email Inquiries: [oberlack@rice.edu](mailto:oberlack@rice.edu)**

**Attention: Uwe Oberlack, Assistant Professor**

Applications are invited for a postdoc position in experimental High Energy Astrophysics at Rice University.

The project is in the development of a Compton telescope for gamma-ray astronomy based on liquid xenon time projection chambers (LXeTPC). This is in the context of R&D towards a future Advanced Compton Telescope for Nuclear Astrophysics, which aims at revolutionizing the field of low-energy gamma-ray astronomy by improving the sensitivity 100-fold over current instruments. The LXeTPC technology is a prime candidate to meet this goal. It has also become increasingly interesting for various other applications, including fundamental physics research such as the search for Dark Matter. A post-doctoral scientist is sought for R&D on energy resolution and time-of-flight in a compact Compton telescope, with the goal of a prototype detector module.

Candidates should have experience with detector hardware and/or electronics, and good computer skills, including experience in C/C++ programming. Data analysis experience is desirable, and prior knowledge of IDL, root, or GEANT4 are advantageous. The position is for 2 years, and may be extended to 3 years. A Ph.D. is required, preferably from a field of observational/experimental high energy astrophysics or astroparticle physics.

Applicants should submit a brief statement of research interests and relevant work experience, CV, and names and contact information for three references to [oberlack@rice.edu](mailto:oberlack@rice.edu) by 5 March 2007. Position remains open until filled.

Exceptionally qualified candidates will be nominated for a G. K. Walters Fellowship, which carries a substantial supplement for salary and research support.

---

**No. 23438 (New)**

**POSTDOCTORAL FELLOWSHIP IN ASTROPHYSICS**

**KEELE UNIVERSITY**

**Tel:**

**URL1: [www.astro.keele.ac.uk](http://www.astro.keele.ac.uk)**

**Email Inquiries: [ferwig@astro.keele.ac.uk](mailto:ferwig@astro.keele.ac.uk)**

***Attention: vacancies@keele.ac.uk***

Applications are invited for a post-doctoral fellowship position in the Astrophysics Group at Keele University. We are looking for a researcher with expertise and interests at the intersection of stellar nucleosynthesis, evolution and hydrodynamics. The appointee will work with Dr. Falk Herwig on large-scale and comprehensive nucleosynthesis computations based on both stellar evolution and hydrodynamics simulations. External team members include Prof. Michael Wiescher (Notre Dame) from the Joint Institute for Nuclear Astrophysics (JINA) and Drs. Frank Timmes and Chris Fryer (LANL). In order to fully realize the collaborative aspects of this project it is expected that the appointee takes advantage of the opportunity to spend one quarter of each year at these participating host institutions.

The Keele astrophysics group is currently undergoing a phase of expansion with three new faculty or tenure-track hired this year, leading up to a group consisting of ten academic staff. The group has research interests in star formation and evolution, the interstellar medium, binary stars, extra-solar planets, and active galaxies. The work covers the entire wave-length range, as well as theory and simulation. The group is supported by a PPARC rolling grant. For more on the Keele group see [www.astro.keele.ac.uk](http://www.astro.keele.ac.uk). Keele University enjoys a rural setting in proximity to the metropolitan area of Manchester as well as to places of outstanding natural beauty, for example in Wales.

The post, which is jointly funded 75% by a European Union grant to Keele and 25% by JINA, is available for 2 years in the first instance, with the possibility for a third year depending on project progress and continued availability of funding. Please note that this is a full-time post, however, due to funding constraints the contract issued by Keele University, and the salary paid by the University, will be 75% of a full-time contract. The further 25% salary will be paid during the three months per year that the post holder spends in the United States. Adequate research resources, including travel, are provided. We have acquired dedicated high-performance computing resources for this project including an 8-core shared memory compute server as well as data analysis and visualization hardware. The project will also have access to the local 172 CPU ClusterVision machine and to external computing resources. The position is open immediately.

Application procedure: Full job packs are available from Human Resources Department, Keele University, Keele, Staffordshire, ST5 5BG, fax: 44-1782-583471, email [vacancies@keele.ac.uk](mailto:vacancies@keele.ac.uk) or [www.keele.ac.uk/depts/uso/hr/cwisvac.htm](http://www.keele.ac.uk/depts/uso/hr/cwisvac.htm). Informal (and confidential) inquiries about the post can be made by contacting Dr Falk Herwig ([pherwig@astro.keele.ac.uk](mailto:pherwig@astro.keele.ac.uk), +44-1782-584371) or Prof Nye Evans ([ae@astro.keele.ac.uk](mailto:ae@astro.keele.ac.uk), tel: 44-1782-583342). Full electronic applications have to be submitted to [vacancies@keele.ac.uk](mailto:vacancies@keele.ac.uk) by March 5th, 2007. Applicants should arrange to have three letters of reference send to this address by that date as well.

Please quote post reference: RE07/05

---

**No. 23440 (New)**

**Postdoc and Ph.D. Position in THz instrumentation and observations**

**UNIVERSITY OF COLOGNE**

**Zuelpicher Str. 77**

**Cologne, NRW 50937**

**Germany**

**Tel: ++49 221 470 3484**

**FAX: ++49 221 470 5162**

**URL1: <http://www.ph1.uni-koeln.de/> (1. Physikalisches Institut, U of Cologne)**

**URL2: [http://www.ph1.uni-koeln.de/workgroups/astro\\_instrumentation/1\\_4th\\_receiver/index.html](http://www.ph1.uni-koeln.de/workgroups/astro_instrumentation/1_4th_receiver/index.html) (CONDOR group)**

**Email Submission Address: [wiedner@ph1.uni-koeln.de](mailto:wiedner@ph1.uni-koeln.de)**

**Email Inquiries: [wiedner@ph1.uni-koeln.de](mailto:wiedner@ph1.uni-koeln.de)**

**Attention: Martina C. Wiedner, Dr.**

Applicants are invited for a postdoc and a Ph.D. position with the CONDOR group.

We are a young research group within the KOSMA institute of the University of Cologne and have built a 1.5 THz heterodyne receiver for APEX and SOFIA. Successful first light observations on APEX were obtained in Nov. 2005. Since CONDOR is one of the very few working heterodyne receivers at THz frequencies there is still a lot of ground breaking work to be done on the astronomical side as well as in instrumentation. Additional information on the KOSMA institute can be found under <http://www.ph1.uni-koeln.de/> on CONDOR under [http://www.ph1.uni-koeln.de/workgroups/1\\_4th\\_receiver/index.html](http://www.ph1.uni-koeln.de/workgroups/1_4th_receiver/index.html).

The postdoc will lead the instrumental research and development of CONDOR. A thorough understanding of receivers employing Hot Electron Bolometers will not only lead to an optimisation of CONDOR but may also lay the foundations for the next generation of THz receivers e.g. for SOFIA. The postdoc is also invited to join the astronomical efforts. The position is initially for 1 year with a possibility of extension.

The Ph.D. student is expected to conduct some instrumental work as well as astronomical observations with CONDOR and other receivers. The current astronomical focuses of the CONDOR group are cold prestellar cores, high mass star formation and HII regions.

Applications, including a curriculum vita, copies of University degrees/records, statement of research interest (for Ph.D. statement of interest) and one or two letters of recommendation should be sent to Dr. M.C. Wiedner by the 15. February 2007.

---

**No. 23442 (New)**

**Postdoctoral Position in Planetary Science**

**COLUMBIA UNIVERSITY**

**Columbia Astrophysics Laboratory**

**550 West 120th Street**

**New York, NY 10027**

**United States**

**Tel: 212 854 7899**

**FAX: 212 854 8121**

**Email Submission Address: [arlin@astro.columbia.edu](mailto:arlin@astro.columbia.edu)**

**Email Inquiries: [arlin@astro.columbia.edu](mailto:arlin@astro.columbia.edu)**

**Attention: Arlin Crofts, Professor**

The Columbia Astrophysics Laboratory (Dr. Arlin Crofts), Lamont-Doherty Earth Observatory of Columbia University (Drs. John Longhi and David Walker), in cooperation with The American Museum of Natural History (Dr. Denton Ebel) are seeking talented applicants for a postdoctoral research position concerning with the atmosphere of the Moon, its relation to lunar geology and The Return to the Moon. This position would be available starting fall of 2007, for one year renewable for two, working with those mentioned above and others. Applicants interested in laboratory, ground-based

observational, or spacecraft investigations are encouraged to apply, and should have a doctorate and research record in a relevant field. Applicants should send a curriculum vitae and statement of interests and experience, and arrange sending three reference letters, to Professor Crotts at the above address. Email applications are discouraged; please send hard copy. Review of applications will begin immediately, ending March 5, 2007, and applicants are encouraged to submit material as soon as possible. Columbia University is an Affirmative Action/Equal Opportunity Employer.

---

**No. 23444 (New)**

**Postdoctoral Researcher in High Energy Emission in Young Stellar Objects**

**UNIVERSITY OF MICHIGAN-DEPT. OF ASTRONOMY**

**830 Dennison Building**

**500 Church Street**

**Ann Arbor, MI 48109-1042**

**USA**

**Tel: 734-764-4185**

**FAX: 734-763-6317**

**Email Submission Address: [jonmm@umich.edu](mailto:jonmm@umich.edu)**

**Email Inquiries: [jonmm@umich.edu](mailto:jonmm@umich.edu)**

*Attention: Dr. Jon M. Miller, Assistant Professor*

Applications are invited for a postdoctoral research position focusing on observational studies of accretion in young stellar objects in the University of Michigan Department of Astronomy. The researcher will be expected to work at the interface of IR and X-ray studies in accreting young stellar objects to better understand the nature of the inner accretion flow. The researcher will work with Profs. Miller, Calvet, and Hartmann in this effort. A background in accretion studies, and experience with multi-wavelength data sets is preferred. Past experience with HST, Spitzer, Chandra/XMM, and/or ground-based observations is also preferred. The initial appointment is for one year, renewable for up to three years. The University of Michigan is a partner in the twin 6.5m Magellan telescopes in Chile. Applicants are asked to send a CV, bibliography, 1-page statement of research experience and proposed future research, and contact information for 3 references to Professor Miller at [jonmm@umich.edu](mailto:jonmm@umich.edu) by the end of March. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

---

**No. 23445 (New)**

**Postdoctoral Researcher in Compact Object Accretion**

**UNIVERSITY OF MICHIGAN-DEPT. OF ASTRONOMY**

**500 Church St.**

**830 Dennison Building**

**Ann Arbor, MI 48109-1042**

**USA**

**Tel: 734-764-4185**

**FAX: 734-763-6317**

**Email Submission Address: [jonmm@umich.edu](mailto:jonmm@umich.edu)**

**Email Inquiries: [jonmm@umich.edu](mailto:jonmm@umich.edu)**

*Attention: Dr. Jon M. Miller, Assistant Professor*

Applications are invited for a postdoctoral research position focusing on observational studies of accreting compact objects in the University of Michigan Department of Astronomy. Experience with multi-wavelength observations, timing, and spectral studies

of compact objects is preferred. A background and/or strong interest in strong gravitational effects and/or disk-jet connections is also preferred. The initial appointment is for one year, renewable for up to three years. The University of Michigan is a partner in the twin 6.5m Magellan telescopes in Chile, and the high energy group is active and growing in our department. Applicants are asked to send a CV, bibliography, a 1-page summary of research experience and interests, and the names of 3 references to Professor Miller at jonmm@umich.edu by the end of March. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

---

**No. 23333****Postdoctoral Position in Observational Cosmology****CASE WESTERN RESERVE UNIVERSITY****10900 Euclid Avenue****Rockefeller Bldg., Physics Dept.****Cleveland, Ohio 44106-7079****USA****Tel: 216-368-4049****FAX: 216-368-4671****Email Submission Address: [ruhl@case.edu](mailto:ruhl@case.edu)****Email Inquiries: [ruhl@case.edu](mailto:ruhl@case.edu)*****Attention: John Ruhl, Professor of Physics***

The Department of Physics at Case Western Reserve University invites applications for postdoctoral positions in observational cosmology with Professor John Ruhl. These positions will concentrate on two new millimeter-wave instruments that will probe the cosmic microwave background radiation. The South Pole Telescope is currently being deployed for its first season of searching for galaxy clusters using the Sunyaev-Zeldovich effect, and a new polarization-sensitive receiver for CMB observations is being designed. The Spider balloon-borne payload, a new instrument designed to detect large-angular scale CMB polarization anisotropies induced by primordial gravitational waves, is now being developed. The candidate should hold a Ph.D. in physics, astronomy, or a closely related field. Applicants should send a curriculum vitae, brief summary of research experience, bibliography, and the names of three references. Case Western Reserve University is an affirmative action/equal opportunity employer, and encourages applications from women, minorities, veterans and disabled persons.

---

**No. 23337****Postdoctoral in Planetary Science****UNIVERSITY OF ARIZONA****1629 E. University Blvd.****Lunar and Planetary Laboratory****Tucson, Arizona 85721-0092****USA****Tel: 520-626-5899****FAX: 520-621-4933****URL1: <http://www.uacareertrack.com/applicants/Central?quickFind=185820> (job link)****URL2: <http://www.lpl.arizona.edu/people/faculty/malhotra2.html> (Prof. Malhotra's homepage)****Email Submission Address: [renu@lpl.arizona.edu](mailto:renu@lpl.arizona.edu)**

**Email Inquiries:** [renu@lpl.arizona.edu](mailto:renu@lpl.arizona.edu)

**Attention:** *Renu Malhotra, Professor*

Applicants are invited for a postdoctoral position focused on research in the dynamics of planetary systems. The position is available starting in March 2007. The appointment will initially be for 1 year, and is renewable contingent upon satisfactory performance and available funding. Candidates should have obtained a Ph.D. in a relevant field by the starting date. Applications should include a short statement of research interests, a CV, a list of publications, and the names and addresses of three references. Applicants should arrange to have letters of recommendation sent to Prof. Renu Malhotra, at the above address. (Letters may be emailed directly by the referees).

The University of Arizona is an Affirmative Action/Equal Opportunity employer.

---

**No. 23349**

**NASA Postdoctoral Fellows at JPL with research opportunities in the areas of Planetary Science, Life Detection, Astrophysics and Space Sciences.**

**NASA/CALTECH/JET PROPULSION LABORATORY**

**Tel:**

**URL1:** <http://nasa.orau.org/postdoc> (*Application Instructions, Program Info*)

**Attention:** <http://nasa.orau.org/postdoc>

NASA Postdoctoral Program Fellowships at Caltech/JPL

The NASA Postdoctoral Program (NPP), administered by Oak Ridge Associated Universities (ORAU), offers unique research opportunities to highly talented national and international individuals to engage in ongoing NASA research programs at NASA's Caltech/Jet Propulsion Laboratory. These one-year competitively awarded Fellowships are renewable for one additional year and possibly two, depending on funding availability. Fellows will be guided by a JPL advisor to ensure that the research work will result in publications in the open literature. Awards include an annual stipend of \$52,000 (with moderate supplements for degree specialties); an \$8,000 professional travel budget; a relocation allowance; and health insurance purchased through ORAU, partially paid by NASA.

Research opportunities are offered in the areas of: Planetary Science and Life Detection, Astrophysics and Space Sciences, Earth Science, Earth Remote Sensing Science, Communications, Tracking and Radar, Instruments and Data Systems

Interested applicants are encouraged to visit the NPP Web site at <http://nasa.orau.org/postdoc> for more information on these exciting research opportunities and for an online application. Communicate directly with the advisor listed for each research opportunity before writing a proposal. The next application deadline is March 1, 2007 with award offers being made as early as May 2007.

All programs offered by NASA and by Caltech's Jet Propulsion Laboratory are in compliance with equal opportunity and affirmative action guidelines. Women, minorities, veterans and disabled persons are encouraged to apply.

---

**No. 23350**

**Postdoctoral appointment, Clusters of Galaxies**

**UNIVERSITY OF WATERLOO**

**200 University Avenue West**

**Waterloo, Ontario N2L 3G1**

**Canada**

**Tel: 519-885-1211x38170**

**FAX: 519-746-8115**

**URL1: <http://www.physics.uwaterloo.ca/>**

**Email Submission Address: [mcnamara@uwaterloo.ca](mailto:mcnamara@uwaterloo.ca)**

**Email Inquiries: [mcnamara@uwaterloo.ca](mailto:mcnamara@uwaterloo.ca)**

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

Applications are invited for a postdoctoral fellowship in clusters of galaxies with Prof. B.R.McNamara and the Department of Physics and Astronomy, University of Waterloo. Applicants with experience in radio, X-ray, optical, and infrared observations of galaxy clusters are preferred, but all observationally-oriented applicants are encouraged to apply. The University has a strong astrophysics and gravitation group emphasizing studies of galaxies and galaxy formation, galaxy clusters, cosmology, the interstellar medium, astronomical instrumentation, general relativity, and particle physics. The department enjoys cordial relations with the nearby Perimeter Institute for Theoretical Physics, which hosts a strong theoretical cosmology group and foments a lively intellectual atmosphere. Waterloo is a pleasant, culturally-diverse city located 50 miles west of Toronto. The position is initially for one year, with a possible extension to two years or more depending on the availability of funds. Applications received prior to February 15 will receive preference, but the deadline will remain open until the position is filled. UW is an equal opportunity employer.

---

**No. 23355**

**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***

Applications are invited for a postdoctoral scholar position in astrophysics of galaxies 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, including: nearby galaxy studies based on archival 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 and spectroscopy. 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.

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 astronomy is highly desirable. The successful candidate is expected to participate in the analysis and interpretation 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 2007. To apply, please send resume, bibliography, and statement of research to the above address as soon as possible, but no later than February 28, 2007, 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. 23359**

**Postdoctoral position in Helioseismology**

**INSTITUTE OF ASTRONOMY, UNIVERSITY OF CAMBRIDGE**

**Madingley Road**

**United Kingdom**

**Tel:**

**URL1:** <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18> (PD18)

**URL2:** <http://www.ast.cam.ac.uk> (*The Institute of Astronomy*)

**Email Inquiries:** [erj@ast.cam.ac.uk](mailto:erj@ast.cam.ac.uk)

**Attention:** *Ms Elinor Jenkins, Postdoctoral Recruitment*

The Institute of Astronomy (IoA) has a vacancy for a postdoctoral research appointment in helioseismology, asteroseismology or related astrophysical fluid dynamics, to work with Professor Douglas Gough. The appointment will be for two years, starting on 1 October 2007, although an alternative starting date could be agreed.

The salary scale will be £25,134 to £32,796 p.a. depending on experience, plus superannuation benefits. Applications including a C.V., publications list, research statement and cover sheet PD18 (parts I and III to be completed) should be sent to Ms Elinor Jenkins, Postdoc.Recruitment, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, UK, to arrive by 28 February 2007. Applicants should ask three referees to write to Ms Elinor Jenkins at the above address by the same date.

**No. 23363 (New)**

**Extragalactic Astronomy BAD**

**LIVERPOOL JOHN MOORES UNIVERSITY**

**Rodney House**

**70 Mount Pleasant**

**Liverpool, Merseyside L3 5UX**

**United Kingdom**

**Tel:** +44 (0) 151 231 3166

**FAX:** +44 (0) 151 709 9585

**URL1:** <http://www.astro.livjm.ac.uk> (*Astrophysics Research Institute*)

**URL2:** <http://www.ljmu.ac.uk> (*Liverpool John Moores University*)

**URL3:** <http://www.ljmu.ac.uk/vacancies.asp> (*Application forms and job description*)

**Email Submission Address:** [jobs@ljmu.ac.uk](mailto:jobs@ljmu.ac.uk)

**Attention:** *Personnel BAD*

Applications are invited for postdoctoral positions in the Astrophysics Research Institute at Liverpool John Moores University. Two or more positions will be available, subject to confirmation of funding from a PPARC rolling grant, to support research efforts in the area of extragalactic astronomy.

Key areas of staff interest include the evolution of galaxies and AGN, in particular

studying the impact of environment on galaxy evolution over a range of redshift, measuring the accretion history of the Universe and stellar population synthesis modelling. Staff at the ARI have major roles in a number of international projects including the HST/ACS Coma Cluster Treasury Project, the XMM-Newton Cluster Survey, the Sloan Digital Sky Survey, the UKIRT Infrared Deep Sky Survey (UKIDSS), VISTA public surveys, and the BaSTI population synthesis database. Applicants are sought with a Ph.D. in astronomy or a related discipline whose research interests lie in these or complementary areas.

Contracts will initially be for a period of three years, with possible renewal dependent on continuation of funding.

Please quote Ref: B7233AS when applying. Informal enquiries may be addressed to Professor Chris Collins, Astrophysics Research Institute, Liverpool John Moores University (telephone +44(0) 151 231 2919, fax:+44(0) 151 231 2926, e-mail:cac@astro.livjm.ac.uk). Further details can be found on the ARI website at <http://www.astro.livjm.ac.uk>

---

**No. 23364****Extragalactic Astronomy  
LIVERPOOL JOHN MOORES UNIVERSITY****Rodney House****70 Mount Pleasant****Liverpool, Merseyside L3 5UX****United Kingdom****Tel: +44 (0) 151 231 3166****FAX: +44 (0) 151 709 9585****URL1: <http://www.astro.livjm.ac.uk> (*Astrophysics Research Institute*)****URL2: <http://www.ljmu.ac.uk> (*Liverpool John Moores University*)****URL3: <http://www.ljmu.ac.uk/vacancies.asp> (*Application forms and job description*)****Email Submission Address: [jobs@ljmu.ac.uk](mailto:jobs@ljmu.ac.uk)****Email Inquiries: [cac@astro.livjm.ac.uk](mailto:cac@astro.livjm.ac.uk)*****Attention: Personnel***

Applications are invited for postdoctoral positions in the Astrophysics Research Institute at Liverpool John Moores University. Two or more positions will be available, subject to confirmation of funding from a PPARC rolling grant, to support research efforts in the area of extragalactic astronomy.

Key areas of staff interest include the evolution of galaxies and AGN, in particular studying the impact of environment on galaxy evolution over a range of redshift, measuring the accretion history of the Universe and stellar population synthesis modelling. Staff at the ARI have major roles in a number of international projects including the HST/ACS Coma Cluster Treasury Project, the XMM-Newton Cluster Survey, the Sloan Digital Sky Survey, the UKIRT Infrared Deep Sky Survey (UKIDSS), VISTA public surveys, and the BaSTI population synthesis database. Applicants are sought with a Ph.D. in astronomy or a related discipline whose research interests lie in these or complementary areas.

Contracts will initially be for a period of three years, with possible renewal dependent on continuation of funding.

Please quote Ref: B7233AS when applying. Informal enquiries may be addressed to

Professor Chris Collins, Astrophysics Research Institute, Liverpool John Moores University (telephone +44(0) 151 231 2919, fax:+44(0) 151 231 2926, e-mail:cac@astro.livjm.ac.uk). Further details can be found on the ARI website at <http://www.astro.livjm.ac.uk>

---

**No. 23366****Postdoctoral Positions in Galaxy Evolution at the University of Heidelberg****UNIVERSITY OF HEIDELBERG****Astronomisches Rechen-Institut****Moenchhofstrasse 12-14****Germany****Tel: +49 6221 540****FAX: +49 6221 541 888****URL1: <http://www.ari.uni-heidelberg.de/> (Astronomisches Rechen-Institut (ARI))****URL2: <http://www.zah.uni-hd.de/> (Center for Astronomy of the University of Heidelberg (ZAH))****URL3: [http://www.uni-heidelberg.de/index\\_e.html](http://www.uni-heidelberg.de/index_e.html) (University of Heidelberg)****Email Submission Address: [grebel@ari.uni-heidelberg.de](mailto:grebel@ari.uni-heidelberg.de)****Attention: *Eva K. Grebel, Prof. Dr.***

Applications are invited for one or two postdoctoral research positions at the Center for Astronomy of the University of Heidelberg (Zentrum fuer Astronomie der Universitaet Heidelberg, ZAH). The ZAH comprises three astronomical institutes, the Astronomisches Rechen-Institut (ARI), the Institut fuer Theoretische Astrophysik (ITA), and the Landessternwarte (LSW). The research interests at the ZAH range from astrometry, star formation, and extrasolar planets to galaxy evolution, quasars, gravitational lensing, and cosmology. Complemented by collaborations with the nearby Max-Planck Institutes for Astronomy (MPIA) and for Nuclear Physics (MPI-K), Heidelberg offers a rich and inspiring research environment.

The successful applicants will work with Prof. Grebel on resolved stellar populations, galaxy evolution, and near-field cosmology, making use of proprietary data from the Radial Velocity Experiment (RAVE), from the Sloan Digital Sky Survey (SDSS-SEGUE), or Pan-STARRS. This research may include the chemical evolution, star formation and accretion history, structure, and dynamics of our Milky Way or of nearby galaxies in the Local Group and beyond (with particular emphasis on dwarf galaxies). The appointees will be based at the ARI, which is heavily involved in the preparation of the ESA cornerstone mission Gaia.

The initial appointment is for two years, renewable contingent on funding and performance. The salary will be according to the German civil service scale. Heidelberg University plans to increase the fraction of female scientists in research and teaching and hence particularly encourages qualified female scientists to apply. Severely handicapped candidates are given preference if equally qualified.

Applicants should send a CV, a bibliography, a statement of research interests and experience, and arrange for three letters of reference to be sent to E.K. Grebel. Applications received by February 28, 2007 will receive full consideration. The envisioned starting date is September 2007, but earlier or later dates can be negotiated.

---

**No. 23387****NASA Postdoctoral Fellows at JPL with research opportunities in the areas of**

**Planetary Science, Life Detection, Astrophysics and Space Science.  
NASA/CALTECH/JET PROPULSION LABORATORY**

**Tel:**

**URL1:** <http://orau.org/postdoc> (*Application Instructions, Program Info*)

**Attention:** <http://nasa.orau.org/postdoc>

NASA Postdoctoral Program Fellowships at Caltech/JPL

The NASA Postdoctoral Program (NPP), administered by Oak Ridge Associated Universities (ORAU), offers unique research opportunities to highly talented national and international individuals to engage in ongoing NASA research programs at NASA's Caltech/Jet Propulsion Laboratory. These one-year competitively awarded Fellowships are renewable for one additional year and possibly two, depending on funding availability. Fellows will be guided by a JPL advisor to ensure that the research work will result in publications in the open literature. Awards include an annual stipend of \$52,000 (with moderate supplements for degree specialties); an \$8,000 professional travel budget; a relocation allowance; and health insurance purchased through ORAU, partially paid by NASA.

Research opportunities are offered in the areas of: Planetary Science and Life Detection, Astrophysics and Space Sciences, Earth Science, Earth Remote Sensing Science, Communications, Tracking and Radar, Instruments and Data Systems

Interested applicants are encouraged to visit the NPP Web site at <http://nasa.orau.org/postdoc> for more information on these exciting research opportunities and for an online application. Communicate directly with the advisor listed for each research opportunity before writing a proposal. The next application deadline is March 1, 2007 with award offers being made as early as May 2007.

All programs offered by NASA and by Caltech's Jet Propulsion Laboratory are in compliance with equal opportunity and affirmative action guidelines. Women, minorities, veterans and disabled persons are encouraged to apply.

---

**No. 23394**

**Research fellowships, Postdoctoral- and Doctoral Positions in Astrophysics and Cosmology -- The Munich/Garching Cluster of Excellence**

**MUNICH UNIVERSITIES (TU AND LMU), MAX-PLANCK-INSTITUTES (MPA,MPE,MPP) AND ESO**

**Tel:**

**URL1:** <http://www.universe-cluster.de>

**Email Submission Address:** [burkert@usm.uni-muenchen.de](mailto:burkert@usm.uni-muenchen.de)

**Email Inquiries:** [burkert@usm.uni-muenchen.de](mailto:burkert@usm.uni-muenchen.de) or [stephan.paul@ph.tum.de](mailto:stephan.paul@ph.tum.de)

**Attention:** *Prof. Dr. Andreas Burkert*

A Cluster of Excellence on "Origin and Structure of the Universe" has recently been installed at the University Campus Garching near Munich, funded by Excellence Initiative of the federal government of Germany. The cluster is operated jointly by the physics departments of the two Munich Universities, three Max-Planck-Institutes and ESO. In a concerted effort between astrophysicists, particle- and nuclear physicists it aims at a deeper understanding of the fundamental forces and physical processes that drive the evolution of the Universe, the nature of its dark components, the origin of matter, the creation of elements, the origin an supermassive black holes and the origin and evolution of galaxies. We are seeking applicants for several programs as outlined below. Besides

profiting from the scientific infrastructures present on the campus Garching, the researchers will be integrated into transregional and international research activities. Interdisciplinary weekly seminars and journal clubs organized by the cluster as well as a large visiting program will offer excellent opportunities especially for young researchers to broaden their scientific horizon and start new collaborations. In the FELLOW PROGRAM we seek excellent scientists of all ages who are interested to work at the Cluster Center in joint collaborations with existing research groups in Munich/Garching. Support will be given for a duration of up to 2 years. We also seek POSTDOCTORAL RESEARCHERS who will join specific research groups and will be involved in specific research projects as outlined in the job description on the cluster web site. These positions are offered typically for 3 years. Finally we invite applications of PHD STUDENTS who will work on a specific and supervised research project. These successful candidates will be enrolled at the University of the supervisor which will also award the doctoral degree in physics. The doctoral students will follow a structured PhD program. The student's progress will be followed by two independent advisors. Funding is for three years. The advancement of women in the science is an integral part of the cluster and the university's policy. Women are therefore especially encouraged to apply. Persons with disabilities will be given preference over other applicants with equal qualifications. Details on the different advertised positions can be found at the Cluster's website <http://universe-cluster.de> (see jobs). Applicants should complete the corresponding web-based application forms.

No fixed closing dates. Selection will start in March 2007 and continue till all positions are filled.

---

**No. 23400****PS1 Science Consortium Postdoctoral Researcher****INSTITUTE FOR ASTRONOMY (IFA)****2530 Dole Street Sakamaki D-100****Honolulu, Hawaii 96822****USA****Tel: 808-956-3100****FAX: 808-956-5022****URL1: [www.rcuh.com](http://www.rcuh.com)****URL2: [www.ps1sc.org](http://www.ps1sc.org)*****Attention: Nelson Sakamoto, Director of Human Resources***

PS1 SCIENCE CONSORTIUM POSTDOCTORAL RESEARCHER – ID# 26701. (1-3) Regular, Full-Time, RCUH Non-Civil Service position with the Institute for Astronomy, located in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds. Salary commensurate with qualifications. Duties: Participates in the Panoramic Survey Telescope and Rapid Response System (Pan-STARRS) survey with the PS1 telescope. Helps with the operation of the Pan-STARRS Image Processing Pipeline (IPP), including pipeline monitoring, data evaluation, algorithm testing and modification, scientific software development, and scientific analysis of the survey data. Uses a wide range of representative data from the PS1 telescope and external sources to verify the working capabilities of the PS1 system and to recommend improvements and modifications. Serves as scientific data reduction and analysis Liaison between one of the PS1 Science Consortium Member Institutions and the Pan-STARRS IPP software team. Works with scientists from that PS1 Science Consortium Member Institution to promote access and analysis of PS1 data and metadata. Visits the PS1 Science Consortium Member Institution

semi-annually. Minimum Qualifications: Education: PhD in Astronomy or Physics. Experience: Experience with software development tools and processes including bug tracking, source control, and API specification. Abil/Know/Skills: Scientific background in astronomy. Knowledge of UNIX operating system. Capability of analysis of data from wide-field imaging cameras. Proficiency in C programming. Physical/Medical Requirements: Able to work at 14,000 feet, and pass high-altitude medical examination. Desirable Qualifications: 2-4 years postdoctoral research in areas of astronomy relevant to Pan-STARRS. Experience with state-of-the-art image combination and difference techniques and astronomical object modeling; with management of UNIX computers/clustered systems; with precision astrometry and photometry; with astronomical data formats and data representations; with relational databases. For more information go to [www.ps1sc.org](http://www.ps1sc.org) Inquiries: Dr. Kenneth Chambers (808) 956-9844 (Oahu) or [chambers@ifa.hawaii.edu](mailto:chambers@ifa.hawaii.edu). Application Requirements: The preferred method of applying for a job is through our on-line application process. Please go to [www.rcuh.com](http://www.rcuh.com), click on "Employment" and navigate to "Job Announcements/Apply for a Job." However, if you do not have access to the Internet, you may apply by submitting a curriculum vitae, including list of publications; cover letter including Recruitment ID#, referral source, narrative of your qualifications for position and copy of degree(s)/transcripts/certificate(s) to qualify for position by fax (808) 956-5022 or mail to Director of Human Resources, Research Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 before the closing date. Please also arrange to have three letters of reference sent confidentially to the same address by the closing date. Closing Date: February 8, 2007. EEO/AA Employer.

---

**No. 23401****postdoctoral fellow in experimental high energy astrophysics****HARVARD UNIVERSITY****Harvard-Smithsonian Center for Astrophysics****60 Garden St.****Cambridge, MA 02138****USA****Tel: 617-495-7204****FAX: 617-496-7356****URL1: <http://hea-www.harvard.edu/ProtoEXIST/> (*ProtoEXIST website at CfA*)****URL2: <http://exist.gsfc.nasa.gov/> (*EXIST website at GSFC*)****Email Submission Address: [josh@cfa.harvard.edu](mailto:josh@cfa.harvard.edu)****Email Inquiries: [josh@cfa.harvard.edu](mailto:josh@cfa.harvard.edu)*****Attention: Jonathan Grindlay, Professor of Astronomy***

A postdoctoral position in experimental high energy astrophysics is available at the Harvard-Smithsonian Center for Astrophysics (CfA) to work on development, testing and flight of the balloon-borne ProtoEXIST hard X-ray imaging telescope. The position will include laboratory development of imaging Cd-Zn-Te (CZT) detector arrays and associated electronics, integration and testing of the detectors in a coded aperture telescope array as well as development of the associated balloon gondola for flight in 2008. ProtoEXIST will observe neutron stars and black holes to demonstrate detector and imaging technologies in support of the proposed EXIST mission as NASA's Black Hole Finder Probe. The ideal applicant will have demonstrated experience with electronics (ideally with detector development and testing), and have good laboratory and computer skills. Experience with C programming and a UNIX environment are required, and experience with IDL and/or FPGA control code (e.g. VERILOG) is desirable. He/she will help supervise

undergraduate/graduate students and have significant lab management responsibilities. The position includes support of balloon-launch expeditions (e.g., Ft. Sumner, NM) which may entail ~1-3 months in the field. A Ph.D. and research experience in observational or experimental high energy astrophysics or related fields is required. Approximately 1/4 time is available for research programs using data from the INTEGRAL and Swift satellite coded aperture imagers (as well as the Chandra, XMM and, after 2008, GLAST telescopes) for studies of neutron stars, black holes and AGN. Prior experience with analysis of X-ray (or gamma-ray) astrophysical data is very desirable. The position is for two years, with extension for a third year pending review. US citizenship or permanent residency is helpful for ready access to NASA and aerospace facilities. Harvard welcomes women and minority applicants.

Three letters of reference should be sent to Prof. J. Grindlay (josh@cfa.harvard.edu) by March 1, 2007. Applications will be accepted until the position is filled. Interviews can be arranged for Jan. 7-9, 2007, at the Seattle AAS meeting.

---

**No. 23403**

**Post Doctoral Fellow in Astronomy  
UNIVERSITY OF ALASKA ANCHORAGE**

**3211 Providence Dr  
Engineering Building, Room 302  
Anchorage, Alaska 99508**

**US**

**Tel: 907-786-1242**

**FAX: 907-786-4607**

**Email Submission Address: [aftar@uaa.alaska.edu](mailto:aftar@uaa.alaska.edu)**

**Email Inquiries: [aftar@uaa.alaska.edu](mailto:aftar@uaa.alaska.edu)**

***Attention: Dr. Travis Rector***

Applications are invited for a postdoctoral position at the University of Alaska Anchorage (UAA) to work with Dr. Travis Rector on an NSF-funded CCLI grant to develop research-based science education curricula. The project involves the development and evaluation of curricula that teaches the process of science by students doing authentic research projects. The successful applicant will help to develop new research projects, acquire the data for these projects with Kitt Peak and WIYN facilities, as well as develop and test the curricula in the classroom. Normal teaching duties are not part of the position. We are especially interested in applicants with some experience in curriculum development, as well as in evaluating student gains.

The appointment is for 2 years, with additional years possible if funding permits.

Candidates must hold a Ph.D. in astronomy, astrophysics or science education upon arrival. No postdoctoral experience is necessary. UAA provides retirement and health-care benefits, as well as support for moving expenses. Work will commence on 1 June 2007, or as soon thereafter as possible. The appointment may start at an earlier date, if mutually convenient.

To apply, please submit a curriculum vita, a statement of research interests, a statement of education experience, and the names and contact information for three references sent to Travis Rector at the address above. For full consideration, complete applications should be received by March 15. Application may also be emailed to Dr. Rector at [aftar@uaa.alaska.edu](mailto:aftar@uaa.alaska.edu) or Faxed to 907-786-4607. UAA is an AA/EO employer & educational institution. Applications for employment are subject to public disclosure under

the Alaska Public Records Act.

---

**No. 23404**

**Postdoctoral Position in Extragalactic Radioastronomy**

**ARGELANDER INSTITUTE FOR ASTRONOMY, UNIVERSITY OF BONN**

**Auf dem Huegel 71**

**Bonn, D 53121**

**Germany**

**Tel: +49 228 736789**

**FAX: +49 228 731775**

**URL1: <http://www.astro.uni-bonn.de/english/index.php>**

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

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

***Attention: Frank Bertoldi, Prof.***

Applications are invited for a postdoctoral position in extragalactic astronomy in the group of Prof. Bertoldi at the Argelander Institute for Astronomy at the University of Bonn. The main focus of the available position is the study of distant galaxies and quasars using spectroscopy and imaging at cm and mm wavelengths. The successful applicant may join ongoing programs in collaboration with C. Carilli at NRAO/ALMA, K. Menten at the neighboring MPIfR, or F. Walter at the MPIA. The applicant should have experience in millimeter or submillimeter observations.

The position is initially for two years, and subject to funding carries the possibility of renewal for a third year. The position is available immediately.

Applicants should, as soon as possible, send a CV, publication list, description of research interests, and arrange for the submission of three letters of recommendation, to the above address. Applications will be accepted until the position is filled. The salary is paid at the German civil service rate (TVÖD 13). Women and minorities are particularly encouraged to apply.

For further information about the position or an informal expression of interest, please do contact Frank Bertoldi.

---

**No. 23211**

**Postdoctoral Scholar in Observational Astrophysics**

**CALIFORNIA INSTITUTE OF TECHNOLOGY**

**1200 E. California Blvd.**

**MC 405-47**

**Pasadena, CA 91125**

**USA**

**Tel:**

**FAX: (626) 568-0285**

**URL1: <http://www.galex.caltech.edu> (*Galaxy Evolution Explorer*)**

**Email Submission Address: [myeater@srl.caltech.edu](mailto:myeater@srl.caltech.edu)**

***Attention: Dr. Christopher Martin, Professor/Principal Investigator***

We invite applications for Postdoctoral Scholar appointments in observational astrophysics to work as research scientists for GALEX, the Galaxy Evolution Explorer. GALEX is a NASA Small Explorer Mission launched in 2003. Appointment is for one year, starting in Summer or Fall 2007, and is renewable up to three years. Appointment is contingent on

completion of Ph.D. Highly qualified candidates may be eligible for Senior Postdoctoral Scholar or Senior Research Fellow positions. The latter are three year appointments, renewable for up to six years.

The GALEX instrument is a 50cm telescope surveying the sky in the far- and near-ultraviolet with both imaging and spectroscopic capabilities. A principal goal of GALEX is to map the history and drivers of star formation in the universe over redshift 0-1.5. GALEX is participating in a large number of multiwavelength campaigns to study the nature and causes of galaxy evolution in the local and distant universe.

Research programs emphasizing galaxy evolution, AGN-galaxy co-evolution, and star formation are strongly solicited. Programs outside this area will also be considered. Applicants are encouraged to propose research programs which incorporate GALEX data into their scientific investigations, that exploit the rich multiwavelength datasets now becoming available from GALEX, Spitzer, SDSS, HST, Chandra, and ground-based surveys, and that take full advantage of Caltech's observational facilities.

Appointees will also be expected to contribute a fraction (not to exceed 25%) of their time in support of GALEX data analysis. The service contribution is dependent on the level of the appointment and the interest and qualifications of the applicant.

Applications including a brief statement of research interests, relevant work experience, curriculum vitae, and three letters of reference should reach Caltech before 28 February 2007. Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

---

**No. 23413 (New)**

**Research Associate**

**CORNELL UNIVERSITY**

**318 Space Sciences Bldg.**

**Ithaca, NY 14853**

**USA**

**Tel: 607-255-8544**

**FAX: 607-255-9002**

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

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

***Attention: Peter Gierasch, Professor***

The Center for Radiophysics and Space Research at Cornell University seeks a Research Associate in the area of planetary atmospheres. The principal areas of work include analysis and interpretation of Cassini infrared spectra from Saturn and Jupiter, cloud structure and motion studies using Cassini imaging data, and interpretation and analysis of ground-based near-infrared spectra and images of Neptune and Uranus, all with emphasis on meteorological questions.

A Ph.D. in planetary science or a related field is required. The applicant should be acquainted with atmospheric dynamics and radiative transfer. Some knowledge of systematic inverse methods in infrared remote sensing is desirable. Further questions can be directed to Peter Gierasch ([gierasch@cornell.edu](mailto:gierasch@cornell.edu)), Don Banfield ([banfield@astro.cornell.edu](mailto:banfield@astro.cornell.edu)) or Barney Conrath ([bconrath@earthlink.net](mailto:bconrath@earthlink.net)). Initial appointment is for one year, with additional years contingent on funding and performance. Candidates should send a statement of research interests and experience, CV, bibliography, and the names of three professional references to Peter Gierasch, 318 Space

Sciences Building, Cornell University, Ithaca, NY 14853 (gierasch@cornell.edu).  
Application review will begin on 1 Feb. 07 and will continue until the position is filled.  
We encourage submission of PDF via email attachments.

Cornell University is an Affirmative Action/Equal Opportunity Employer

---

**No. 23415 (New)**

**Researcher, Galaxies and Groups**

**THE JOHNS HOPKINS UNIVERSITY**

**3701 San Martin Drive**

**Bloomberg 527**

**Baltimore, MD 21218**

**US**

**Tel: 410-516-0557**

**FAX: 410-516-5096**

**URL1: <http://physics-astronomy.jhu.edu>**

**URL2: <http://astrophysics.gsfc.nasa.gov>**

**Email Submission Address: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**

**Email Inquiries: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**

***Attention: Tahir Yaqoob, Principal Research Scientist***

The Johns Hopkins University (JHU) Center for Astrophysical Sciences (CAS), and the NASA/Goddard Space Flight Center's Astrophysical Science Division seek a scientist to join their staff for a joint research appointment studying groups of galaxies with Dr. Ann E. Hornschemeier and collaborators. The incumbent will be based principally at NASA/GSFC but will be expected to spend time at both institutions. Applicants with experience in ground-based optical imaging and spectroscopy are particularly encouraged and some expertise with Spitzer (IRAC & MIPS), Chandra and GALEX data reduction will be a major advantage. The project involves coordination of ground-based and space-based follow-up of 12 nearby Hickson Compact Galaxy Groups that are part of Dr. Hornschemeier and collaborators' Spitzer and HST programs. Several nights of observing time in Chile this spring are already approved, and proposals will be submitted for additional time at various facilities. This work will be done with collaborators at University of California, Los Angeles, Penn State University, University of Virginia, and Carnegie Observatories. Thus, willingness to work with a team and to travel to telescopes and collaborating institutions is critical to this project.

Scientists at JHU and NASA/GSFC have the possibility of collaborating with researchers at several other major institutions that are conveniently located nearby, including the Space Telescope Science Institute and Universities of Maryland. The position, to begin as soon as possible, is initially for one year, with renewal up to three years, depending on progress and funding. Interested candidates should send their applications, including cover page, CV, and summary of research accomplishments, to reach JHU by March 5, 2007. Applicants must also arrange for signed originals of three letters of recommendation to reach JHU by the same date. Preference will be given to candidates who will be eligible to begin at the earliest date. Candidates must have a PhD for this position and applicants with citizenships from some countries may encounter delays due to the security screening process required to access GSFC. Applications and recommendation letters should be sent to: Dr. Tahir Yaqoob, Department of Physics & Astronomy, JHU, 3400 N. Charles St., Baltimore, MD 21218. The Johns Hopkins University encourages applications from women and minority candidates. AAE/EOE.

---

**No. 23420 (New)**  
**Scientific Staff Position**  
**NATIONAL OPTICAL ASTRONOMY OBSERVATORY**  
**P. O. Box 26732**  
**Tucson, AZ 85726-6732**  
**USA**  
**Tel: 520-318-8116**  
**FAX: 520-318-8494**  
**Email Submission Address: [hrnoao@noao.edu](mailto:hrnoao@noao.edu)**  
**Email Inquiries: [awalker@ctio.noao.edu](mailto:awalker@ctio.noao.edu)**

***Attention: Human Resources Office, Attn: Observational Astronomer, Job #825***

Cerro Tololo Inter-American Observatory, a division of the National Optical Astronomy Observatory (NOAO) invites applications for a scientific staff position to be filled on the scientist track (20% research). We are specifically looking for an experienced observational astronomer who will primarily be responsible for supporting instruments and operations at the 4.1m SOAR telescope. The SOAR telescope partnership consists of NOAO, Brazil, the University of North Carolina and Michigan State University; the NOAO community is entitled to 30% of the telescope time. The successful candidate will also be encouraged to take part in other observatory activities, and to develop his/her research career. CTIO scientific staff work on a wide variety of research topics including aspects of observational cosmology, stellar populations and star formation and evolution. Ideally the successful applicant's research will make use of local telescopes, and collaboration with CTIO, SOAR and Gemini staffs is encouraged. CTIO operates the Blanco and SOAR 4-m telescopes, is a member of the SMARTS Consortium which operates four smaller telescopes, and provides much of the infrastructure to support other NOAO programs which are bi-hemisphere in scope. There is a strong technical group involved in optical and infrared instrumentation, and in the development of Adaptive Optics. CTIO staff participate in all the NOAO-wide programs which include GSMT, LSST, Gemini support, Data Products, and Major Instrumentation. The SOAR telescope is a new state-of-the-art facility that is in the later stages of commissioning. During the next two years several new instruments will arrive at SOAR - these include the Goodman spectrograph, the SIFS IFU-fed spectrograph, the large-format Spartan IR camera, and the high resolution IR spectrograph Phoenix. They will join the SOAR Optical Imager and the IR imaging spectrograph OSIRIS. The SOAR Adaptive Module (SAM) is a ground-layer AO system which is being built at CTIO; initial on-telescope tests with a natural guide star are expected by the end of 2007 with commissioning of the laser guide star mode to follow a year later. The position is based at the AURA campus in La Serena, Chile, which includes the offices of CTIO, SOAR and Gemini-South, with the offices of Las Campanas Observatory next door. The working language is English. Staff members have excellent benefits and living conditions, a cost-of-living allowance, an educational stipend for dependent children, support for Spanish lessons, international health care benefits, and annual travel to the point of hire. Bilingual education for children is available at the International School of La Serena which was co-founded by and still supported by AURA. The city of La Serena is a major seaside tourist destination in South America, with a climate very similar to San Diego, California. Applicants should submit electronically to: [hrnoao@noao.edu](mailto:hrnoao@noao.edu)(preferred) a vitae, a statement of current professional interests, and the names of three references, or mail to the address below.

NOAO Human Resources Office Attn: Observational Astronomer, Job #825 PO Box 26732 Tucson, AZ 85726-6732 [hrnoao@noao.edu](mailto:hrnoao@noao.edu) FAX: 520-318-8494

Applications will be considered at all levels, those received prior to March 9 2007 are assured of full consideration, however, the position is open until filled. NOAO is an equal opportunity/affirmative action employer, we foster a diverse research environment and women and candidates from under-represented minorities are particularly encouraged to apply. Further details can be obtained from CTIO Director Alistair Walker, [awalker@ctio.noao.edu](mailto:awalker@ctio.noao.edu).

---

**No. 23426 (New)**

**Departmental Lecturer in Astrophysics (DB07001)**

**UNIVERSITY OF OXFORD**

**Denys Wilkinson Building**

**Keble Road**

**Oxford, Oxon OX1 3RH**

**United Kingdom**

**Tel: ++44 (0) 1865 273302**

**FAX: ++44 (0) 1865 273390**

**URL1: <http://www-astro.physics.ox.ac.uk/jobs/> ((Physics (Astrophysics)))**

**Email Submission Address: [sec@astro.ox.ac.uk](mailto:sec@astro.ox.ac.uk)**

**Email Inquiries: [NONE](#)**

**Attention: *Vanessa Ferraro-Wood, Mrs***

Department Lectureship in Astrophysics University of Oxford Astrophysics Denys Wilkinson Building Keble Road Oxford OX1 3RH UK Tel: 44- (0)1865 273302 Fax: 44- (0)1865 273390

Salary Scale (Departmental Lecturer) £25,633 - £31,525 with a discretionary range to £34,448 per annum.

---

The Physics Department proposes to appoint a Departmental Lecturer in Astrophysics for a 3-5 year post to commence, 1 April 2007, or as soon as possible thereafter.

Applications from candidates wishing to work in any area of our research programme, although we have a preference for a theoretical astrophysicist with an interest in simulation work for next-generation radio telescopes.

Applications including a statement of research interests and teaching experience, curriculum vitae, a list of major publications, and the names and addresses of three referees (not more than two from the same institution) should be sent to arrive no later than 12pm, 3 March 2007.

Questions about the post can be addressed to Prof Steve Rawlings ([sr@astro.ox.ac.uk](mailto:sr@astro.ox.ac.uk)). Candidates should arrange for letters of reference to be sent to the same address to arrive by the closing date.

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

Applications should be submitted to Mrs Vanessa Ferraro-Wood, Sub-department of Astrophysics, The Denys Wilkinson Building, Keble Road, Oxford, OX1 3RH, UK, quoting job reference DB07001 on all correspondence, email: [sec@astro.ox.ac.uk](mailto:sec@astro.ox.ac.uk); fax: 00-44- (0) 1865-273390.

Further Particulars of the post, including application details may be obtained from

<http://www-astro.physics.ox.ac.uk/jobs/>

The University is an Equal Opportunity Employer

---

**No. 23335**

**Pan-STARRS Research Positions at the Johns Hopkins University**

**THE JOHNS HOPKINS UNIVERSITY**

**Department of Physics and Astronomy**

**3400 North Charles Street**

**Baltimore, MD 21218**

**USA**

**Tel:**

**URL1: [www.ps1sc.org](http://www.ps1sc.org)**

**Email Submission Address: [bmd@pha.jhu.edu](mailto:bmd@pha.jhu.edu)**

**Email Inquiries: [heckman@pha.jhu.edu](mailto:heckman@pha.jhu.edu)**

***Attention: Barbara Dreyfus***

Subject to the availability of funds, the Center for Astrophysical Sciences at The Johns Hopkins University expects to hire one or more junior researchers to work with our faculty on the analysis of data from the Pan-STARRS project. Depending on the experience of the applicant, the position could be filled at the rank of Postdoctoral Fellow, Assistant Research Scientist, or Associate Research Scientist.

Starting in the fall of 2007, Pan-STARRS ([www.ps1sc.org](http://www.ps1sc.org)) will use the largest astronomical camera ever built to conduct a set of optical imaging surveys. These surveys represent an enormous increase in our ability to investigate the time domain, and also provide multicolor images of unmatched depth over such large angular scales. Johns Hopkins University, as a member of the Pan-STARRS consortium, will play an important scientific role in several key areas. We are especially seeking researchers to work in cosmology (including supernovae and large scale structure), data intensive science, Galactic structure, galaxy evolution (including active galactic nuclei), and planetary science (including the solar system and extra-solar planets). The starting date for the appointment is flexible within the range July to December 2007.

Candidates should send a letter of application, CV, and statement of research interests to Barbara Dreyfus, Center for Astrophysical Sciences, Department of Physics & Astronomy, Johns Hopkins University, Baltimore, MD 21218. These materials may also be submitted electronically ([bmd@pha.jhu.edu](mailto:bmd@pha.jhu.edu)). They should also arrange for three letters of reference to be sent either by mail or electronically to the same addresses. The deadline for receipt of application materials is February 15, 2007.

The Johns Hopkins University is an EEO/AA employer.

---

**No. 23342**

**Permanent Position in Computational Astrophysics**

**CEA SACLAY**

**Batiment 709**

**Service d'Astrophysique**

**Gif-sur-Yvette, France 91191**

**France**

**Tel: +33169089987**

**FAX: +33169086577**

**URL1:** <http://www-dapnia.cea.fr/Projets/Snoopy>

**URL2:** <http://www-dapnia.cea.fr/Sap>

**Email Submission Address:** [romain.teyssier@cea.fr](mailto:romain.teyssier@cea.fr)

**Email Inquiries:** [romain.teyssier@cea.fr](mailto:romain.teyssier@cea.fr)

**Attention:** *Romain Teyssier, Doctor*

The astrophysics department of CEA Saclay is inviting outstanding candidates with a PhD degree and a postdoctoral experience to apply for a permanent position in high performance computing in astrophysics.

The astrophysics department, located 20 km south of Paris, is part of a large fundamental research division of CEA called DAPNIA, with a sustained development in computer science, namely computer simulations, applied mathematics, vector and parallel computing and visualisation. CEA is a leading institute in the super-computing community, so that its impact on computational astrophysics is rapidly growing.

The newly created Computational Astrophysics Group, associated with a group of experts in software engineering and visualisation, is involved in several large projects funded by the French Science Foundation, as well as in the simulation of high-energy laser experiments. Although our expertise mainly lies in the dynamics of self-gravitating, magnetized fluids, the scientific topics covered by our group are strongly connected with the Astrophysics department's research areas: cosmology, galaxy formation, interstellar medium, star formation, planetary systems, stellar evolution, the Sun and high-energy laser astrophysics.

The candidate should have already demonstrated an outstanding record of research, as well as a clearly identified expertise in high performance computing. The position we are offering will allow the candidate to conduct his own research, in collaboration with other experts in Saclay, with a strong focus on leading Grand Challenge super-computing projects in France and in Europe.

Applicants are invited to submit by email at [romain.teyssier@cea.fr](mailto:romain.teyssier@cea.fr) with subject: Position in Computational Astrophysics the following information: a Curriculum, a publication list, a 2-3 pages statement on their experience and research interests and three letters of recommendation. The deadline for receiving the complete file by email is March the 1st, 2007. For any further information (salary, career evolution, level of expertise), please contact us by email.

---

**No. 23416 (New)**

**Observational Astronomy/Astrophysics**

**UNIVERSITY OF NORTH DAKOTA**

**Tel:**

**URL1:** <http://www.und.edu/dept/aao/newjobarts.htm#00016813>

**Attention:** *Tim Young*

The University of North Dakota's Physics Department invites applications for a tenure-track assistant professor position in the general area of observational astronomy/astrophysics. The position begins August 16, 2007. Responsibilities include teaching undergraduate and graduate physics, astronomy, and astrophysics courses, initiating an active program of research, supervising students conducting research at the B.Sc., M.Sc., and Ph.D. levels, and seeking external funding for research. Candidates must have a Ph.D. in physics, astrophysics, or astronomy and a minimum of two years postdoctoral experience. Applicants should submit a curriculum vitae, a statement

regarding teaching, and a statement regarding research to Dr. Timothy Young Physics Department Witmer Hall Room 226 101 Cornell Street Stop 7129 Grand Forks ND 58202-7129 email: tim\_young@UND.NoDak.edu

---

**No. 23431 (New)**

**Tenure-Track Faculty, Imaging Science**

**CHESTER F. CARLSON CENTER FOR IMAGING SCIENCE, ROCHESTER INSTITUTE OF TECHNOLOGY**

**Carlson Building, 54 Lomb Memorial Drive**

**Rochester, NY 147623**

**USA**

**Tel: 585-475-6220**

**URL1: <http://finweb.rit.edu/HumanResources/CareerZone/servlet.html?cmd=jobmart.user.ViewPositionPage&position.id=1861> (Faculty, Center for Imaging Science,)**

**URL2: <http://finweb.rit.edu/HumanResources/CareerZone/servlet.html?cmd=jobmart.user.ViewPositionPage&position.id=1842> (Faculty, Center for Imaging Science)**

**Email Submission Address: [facultysearch@cis.rit.edu](mailto:facultysearch@cis.rit.edu)**

**Email Inquiries: [baum@cis.rit.edu](mailto:baum@cis.rit.edu)**

**Attention: Stefi Baum, Director**

In support of its expanding PhD program in Imaging Science and its new Ph.D. program in Color Science as well as its undergraduate programs, Rochester Institute of Technology's Chester F. Carlson Center for Imaging Science (CIS) seeks two outstanding individuals to fill tenure-track faculty positions, one with an emphasis in imaging algorithms and systems, and one with an emphasis in color science or its applications. Applicants will be considered at all levels (Assistant, Associate, and Full). A PhD in a related science or engineering field, a strong record of research, publication, and grant funding and an interest and ability to teach at the undergraduate and graduate level are required. For the position in imaging algorithms and systems, only, applicants must be U.S. citizens or permanent residents (i.e. able to handle ITAR restricted data). CIS is a highly interdisciplinary university research and education center, dedicated to pushing the frontiers of imaging in all its forms and uses. Major research thrusts include Astronomy, Biomedical Imaging, Color Science, and Remote Sensing. CIS offers B.S., M.S. and Ph.D. degrees in Imaging Science with an emphasis on the mathematics and physics of image formulation, image algorithm development, analysis and information extraction, end-to-end systems engineering of imaging systems and development of sensor systems and imaging instrumentation. CIS offers the M.S. and Ph.D. degree in Color Science with courses and research that span topics such as colorimetry, spectrophotometry, spectroradiometry, visual perception, psychophysics, color modeling of material and imaging systems, image reproduction, and color management. Applications should be submitted to [facultysearch@cis.rit.edu](mailto:facultysearch@cis.rit.edu) as one PDF file that includes a summary of education and professional background; list of publications and research grants; summary of teaching and research experience; a list of three professional references and a brief personal statement on expected future research and teaching activities. Applications will be reviewed on a rolling basis, with closing date March 1, 2007. RIT is an equal opportunity/affirmative action employer. Visit [www.cis.rit.edu](http://www.cis.rit.edu) for more information and the full job postings.

[Job Register](#) | [Career Services](#) | Last Updated: March 24, 2006

---

American Astronomical Society  
2000 Florida Ave., NW Suite 400, Washington, DC 20009-1231, USA  
tel: 202-328-2010, fax: 202-234-2560, [aas@aaas.org](mailto:aas@aaas.org)

The American Astronomical Society is a member of the American Institute of Physics and adheres to International Astronomical Union designations.

© 2007 , American Astronomical Society