



April 2004

JOB REGISTER

American Astronomical Society

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

Editorial

A special session on The Astronomy Workforce will be held Thursday, June 3rd at the AAS Denver Meeting (link to <http://www.aas.org/meetings/aas204/>). The program for this 90-minute special session will be composed of 3-4 invited talks followed by audience discussion.

An evening Networking Event (link to <http://www.aas.org/meetings/aas204/events.html#grad>) will be held for Graduate Students and Employers at the AAS Denver Meeting on Tuesday June 1st from 7:00 to 8:00 p.m. The chair of the Employment Committee will be present to discuss the activities of the employment committee and how graduate students can benefit from them as well as briefly introducing the recruiters present. Tickets are required and are available free of charge to grad students and recruiters through the meeting registration. Contact Kevin Marvel, Deputy Executive Officer (marvel@aas.org), for further details.

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Publication Policy for the *AAS Job Register*

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Deadlines for submission

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

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

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

Examples

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

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

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

Rate Sheet

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

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

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

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

We accept payment by:

Check, in US currency drawn on a US bank. VISA and MasterCard be sure to include expiration date. Purchase orders are not accepted. If excluding purchase orders causes extreme hardship contact Dr. Kevin B. Marvel (marvel@aaas.org) to discuss alternatives.

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

American Astronomical Society
Attention Job Register Payment
2000 Florida Ave., NW,
Suite 400
Washington, DC 20009-1231, USA
FAX: 202-234-2560

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

The AAS Federal Identification number is 21-0735173.

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

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

Announcement Requirements

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

Jobs will not be published without the following:

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

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

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

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

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

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

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

Submission

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

Frequency and Circulation

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

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

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

Member Notification

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

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Jobs from Previous Months

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

No. 20434
Radio Astronomer
NAVAL RESEARCH LABORATORY
2001 Wisconsin Ave., NW
GR 322A
Washington, DC 20007
USA
Tel: 202-334-2760
FAX: 202-334-2759
URL1: <http://rsd-www.nrl.navy.mil/7213/weiler/>
Email Inquiries: Namir.Kassim@nrl.navy.mil, rap@nas.edu

Attention: Research Associateship Programs

Postdoctoral Positions in Radio Astronomy

NAVAL RESEARCH LABORATORY Remote Sensing Division, Code 7213 4555 Overlook Ave. SW
Washington, DC 20375-5351 Tel. 202-767-0668 FAX: 202-404-8894
<mailto:Namir.Kassim@nrl.navy.mil> Attention: Dr. Namir Kassim

The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with an interest in radio astronomy. The successful candidate will be expected to carry out innovative research programs in (1) Radio astronomy hardware development, such as antenna and receiver design and development, digital signal processing, or radio frequency interference (RFI) mitigation techniques; or (2) Any area of astrophysics where existing or planned low-frequency radio observations (e.g., with VLA, VLBA, Arecibo, GMRT, GBT) may contribute, such as high-redshift radio galaxies, clusters of galaxies, supernova remnants and pulsars, studies of propagation effects, searches for extrasolar planets, or the solar system (e.g., Jupiter or the Sun).

NRL radio astronomers carry out a wide range of observational programs at the VLA, VLBA, and Arecibo Observatory, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today. With it, NRL scientists are beginning a sky survey of the northern hemisphere, the VLA Low-Frequency Sky Survey (VLSS). Inspired by the capabilities of the 74 MHz system, NRL radio astronomers, together with scientists at an international consortium consisting of the Netherlands Foundation for Research in Astronomy (ASTRON) and Massachusetts Institute of Technology (MIT) are planning to build the Low Frequency Array (LOFAR). NRL radio astronomers are involved in designing and developing two prototype LOFAR "stations" or phased banks of dipoles to be deployed in the 2004--2005 time frame. Observational programs, such as a 74 MHz sky survey or ongoing 74 and 330 MHz Galactic center observations, are pursued both for their intrinsic astronomical interest as well as to help guide LOFAR calibration and imaging strategy and array configuration design. LOFAR will open a new window on the spectrum, with scientific applications in virtually all areas of astrophysics.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years, with a third year extension if warranted. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Each year, deadlines for submission to the NRC are February 1, May 1, and August 1. The current award stipend is \$55,120 per year. US

citizenship or permanent residency is required. Application materials can be obtained online at www.national-academies.org/rap. For further information contact Dr. Namir Kassim at the above address; see also the NRL SNe/SNR/LFRA site: <http://rsd-www.nrl.navy.mil/7213/weiler/>.

No. 20526**Postdoctoral Position in Computational Astrophysics****DREXEL UNIVERSITY****Department of Physics****32nd & Chestnut Streets****Philadelphia, PA 19104****U.S.A.****Tel: (215) 895-2723****FAX: (215) 895-5934****URL1: <http://www.physics.drexel.edu/research/astro>****(Astrophysics Group home page)****Email Submission Address: steve@physics.drexel.edu****Email Inquiries: steve@physics.drexel.edu*****Attention: Steve McMillan, Professor***

Drexel University departments of Physics and Computer Science invite applications for a postdoctoral position in computational astrophysics, beginning in September 2004. The successful applicant will work on the development of an integrated software suite of analysis and visualization tools for use on commodity (Beowulf-class) clusters of computers. Research efforts will center on three specific areas in astrophysics: (1) particle simulations of star clusters and galaxies, (2) fluid and particle simulations of large-scale structure in the universe, and (3) analysis and mining of the Sloan Digital Sky Survey database. The work will be carried out under the supervision of Prof. S. McMillan (Physics), in collaboration with other team members. Parts of the project may be performed at the National Center for Supercomputer Applications.

Applicants should have demonstrated experience in computational techniques relevant to at least one of the areas listed above, be familiar with Linux, have strong C++ programming skills, and ideally also have experience with scripting languages such as Python, and symbolic computing environments such as Maple or Matlab. The initial appointment will be for two years, subsequently renewable for up to two more years based on performance. Applicants should send a curriculum vitae, bibliography and statement of research interests, and arrange to have three letters of recommendation sent to Prof. S. McMillan at the above address. Applications will receive full consideration until the position is filled.

Drexel University is an Affirmative Action/Equal Opportunity Employer.

No. 20569**POSTDOCTORAL RESEARCH ASSOCIATE IN THEORETICAL GAMMA-RAY****ASTROPHYSICS****NAVAL RESEARCH LABORATORY****2001 WISCONSIN AVENUE, NW****WASHINGTON, DC 20007****US****Tel: 202-334-2760****Email Inquiries: DERMER@GAMMA.NRL.NAVY.MIL**

Attention: RESEARCH ASSOCIATES PROGRAMS

The High Energy Space Environment Branch (<http://heseweb.nrl.navy.mil/>) of the Naval Research Laboratory invites applications for a postdoctoral position in theoretical astrophysics. The research will focus on the scientific results anticipated from the Gamma-ray Large Area Space Telescope, which includes studies of gamma-ray bursts, blazars, pulsars, cosmic rays, and the unidentified EGRET gamma-ray sources. About one-half of the effort will be devoted to the development of theoretical models of high-energy sources. Associated with this effort will be a program of software development for testing theoretical models with GLAST data. The position would be administered by the National Research Council and would have a salary of \$55,000 per year. The program is open to US citizens and permanent residents at the time of the appointment who have received their PhDs within the past 5 years.

The application deadline for the February review is, February 1st. and for the June review is May 1st. A candidate will be required to write a short proposal outlining his or her research goals, which will be reviewed by an independent committee. For more information, contact Dr. Charles Dermer, Code 7653, Naval Research Laboratory, Washington, DC. 20375-5352. Phone (202) 767-2965, e-mail: dermer@gamma.nrl.navy.mil. NRL is an equal opportunity employer.

No. 20604**Postdoctoral Opportunity - Astrophysics and Planetary Sciences
LAWRENCE LIVERMORE NATIONAL LABORATORY****Tel:****URL1: <http://www.llnl.gov/urp/IGPP>*****(For more information visit)******Attention: Institute of Geophysics and Planetary Physics Department***

Postdoctoral Opportunity - Astrophysics and Planetary Sciences Lawrence Livermore National Laboratory Livermore, California

The Institute of Geophysics and Planetary Physics (IGPP) at Lawrence Livermore National Laboratory (LLNL) has several postdoctoral positions available in its Astrophysics and Planetary Sciences Center starting in the fall of 2004. Successful candidates will conduct research in one or more of the following areas:

- Laboratory studies of interplanetary dust particles collected in the stratosphere, returned samples from the STARDUST comet mission
- Theoretical and computational studies of stellar structure, and astrophysical jets
- Observations of luminous infrared galaxies, radio galaxies, and qso
- Laboratory experiments simulating the effects of high-energy particles and shocks on interstellar dust
- Wide-field, time-domain surveys and survey data mining supporting the development of the LSST
- Gamma-ray observations with the High Energy Focusing Telescope

- Detection of extrasolar planets via high-contrast adaptive optics
- Astronomical studies of circumstellar dust

Postdoctoral fellows will have access to LLNL's excellent computer facilities, advanced instrumentation and experimental facilities, and the University of California Observatories, including Keck Observatory (in collaboration with IGPP staff members or UC faculty).

The appointments are for one year, extendible to three years pending funding availability. Salary and benefits are extremely competitive (>\$60,000) and some travel support will be made available. For further information, please visit <http://www.llnl.gov/urp/IGPP/>. Resume submission deadline April 30, 2004.

LLNL offers a challenging environment and a competitive salary/benefits package. When applying for this position, go to "Advanced Search" and enter source code: AIAH214PT in the Source Code field on the Search Job Postings web page at <http://jobs.llnl.gov>. LLNL is operated by the University of California for the Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

Lawrence Livermore National Laboratory <http://jobs.llnl.gov/>

Applicants must visit <http://jobs.llnl.gov/> to apply for position. No resumes will be accepted via email.

No. 20618

Postdoctoral Associate, Astrophysics

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

77 Massachusetts Avenue

Room 37-521

Cambridge, MA 02139-4307

USA

Tel:

Email Submission Address: mwb@space.mit.edu

Attention: Mark Bautz

Postdoctoral Associate

The MIT Center for Space Research seeks a postdoctoral associate to participate in observational X-ray astrophysics with the Astro-E2 satellite. Scheduled for launch in 2005, Astro-E2 is a Japan/US collaboration with instruments including a microcalorimeter array with spectral resolving power $R \sim 1000$ at 6 keV, a high-throughput, broadband CCD imager and a hard X-ray ($10 < E < 700$ keV) detector. The MIT Center for Space Research has provided the CCD detectors for Astro-E2 and is represented on the Astro-E2 Science Working Group.

The incumbent's primary responsibility will be to participate in the analysis and interpretation of observations that exploit Astro-E2's unprecedented capabilities, especially for high-resolution X-ray spectroscopy of spatially-resolved, extragalactic objects. The successful candidate will be encouraged to collaborate with others in MIT's vibrant high-energy astrophysics research community, including members of the Chandra Advanced CCD Imaging Spectrometer (ACIS) and High-Energy Transmission

Grating (HETG) teams and those affiliated with the Chandra X-ray Center at MIT.

Candidates should have strengths in one or more of the following areas: experience in X-ray astronomical data analysis, understanding of high-resolution X-ray spectroscopy, and/or knowledge of the physics of the X-ray-emitting plasmas. The position requires a Ph.D. in astronomy, physics, or a closely-related field. The successful applicant should be available before the end of 2004.

Qualified applicants should send a CV and a statement of research interests and arrange for three letters of reference to be sent to either mwb@space.mit.edu or Mark Bautz, Center for Space Research, 37-521, 77 Massachusetts Avenue, Cambridge, MA 02139-4307. Applications will be reviewed beginning 5 April 2004. Applications must be received by 16 April 2004. AAE/EOE.

No. 20654

Tenure-Track Faculty Position in Astronomy/Astrophysics/Cosmology

UNIVERSITY OF MISSOURI-COLUMBIA

223 Physics Bldg.

Columbia, MO 65211

USA

Tel: 573-882-3335

FAX: 573-882-4195

Email Submission Address: sturguessg@missouri.edu

Attention: Astronomy/Astrophysics/Cosmology Search Committee

The Department of Physics & Astronomy at the University of Missouri - Columbia anticipates filling a tenure-track faculty position in Astrophysics/Cosmology starting September 1, 2004. The candidate should have an excellent research record, an ability to teach effectively across the astronomy curriculum at all levels, and an interest in developing innovative techniques for undergraduate education. The successful candidate is expected to establish a strong externally funded research program, and to contribute to the department's aggressive effort to build an internationally visible center for astrophysics and cosmology at MU. Candidates in any area of astronomy or astrophysics, including theory, observation, and numerical experiment, are invited to apply; however, theoretical or observational astronomers whose research interests overlap with existing departmental research in gravitation, stellar evolution, circumstellar and interstellar dust are particularly encouraged.

Information about the Physics & Astronomy Department is available at <http://www.physics.missouri.edu> .

Applicants should possess a Ph.D. in physics or astronomy, postdoctoral experience, a strong research record, and a commitment to excellence in teaching. Applicants should submit a curriculum vitae, bibliography, a clear research plan, and a statement of teaching philosophy, and should arrange for at least three letters of reference to be sent to Astrophysics/Cosmology Search Committee, Department of Physics & Astronomy, University of Missouri, Columbia, MO 65211. Tel: (573) 882-3335; Fax: (573) 882-4195; email: sturguessg@missouri.edu .

To ensure full consideration, applications should be received by May 1, 2004. Women and minorities are encouraged to apply. To request ADA accommodations, please contact our ADA Coordinator at (573) 884-7278 (V/TTY).

No. 20659

**STAFF ASTRONOMER WORKING IN NATIONAL EDUCATION AND PUBLIC OUTREACH
CHALLENGER CENTER FOR SPACE SCIENCE EDUCATION**

1250 N. PITT ST.

ALEXANDRIA, VA 22314

USA

Tel: 703-683-9740

FAX: 703-683-7546

URL1: <http://www.challenger.org>

(Organization Website)

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

(Voyage Project Website)

URL3: <http://www.challenger.org/journey>

(Journey through the Universe Program)

Email Submission Address: SBURKMAN@CHALLENGER.ORG

Email Inquiries: JGOLDSTEIN@CHALLENGER.ORG

Attention: SARAH BURKMAN, HR ADMINISTRATOR

The Space Science Research department at Challenger Center for Space Science Education is in the process of building a research group in planetary science and astronomy. Ongoing research programs include comparative studies of planetary atmospheres, and modeling of extrasolar planetary systems. Staff expertise includes the use of ground- and space-based thermal and near-IR spectrometers and imaging systems, and the development of IR heterodyne spectrometers. These activities are conducted in collaboration with the Laboratory for Extraterrestrial Physics at Goddard Space Flight Center, the University of Maryland Astronomy Department, and researchers nationally and internationally.

Currently Challenger Center research staff split their time between education & public outreach (E&PO) on a national level and research. Headquartered in Alexandria, VA, Challenger Center oversees a network of 52 Learning Centers located in museums and science centers, universities, and school districts across the US, Canada, and the UK.

Challenger Center has funding for an astronomer or planetary scientist working full time in education and public outreach. Once hired the researcher will be encouraged to submit research proposals that can allow them to backfill up to 50% of their time with research activities. We are seeking candidates that are interested in conducting research in programmatic areas consistent with Challenger Center research interests. The position is available immediately, and is located in Alexandria, VA.

Minimum Qualifications: Ph.D. in astronomy, planetary science, or a closely related field, and a demonstrated interest and capability in K-12 education and/or public outreach. Salary will be commensurate with experience.

To apply: Please send curriculum vitae, salary history, including a list of publications and a statement of current research and education interests and future plans to the above address. Applicants should be ready to arrange for three letters of reference to be sent confidentially to the same address. The position will remain open until a suitable candidate is identified.

No. 20663

Postdoctoral Fellow in Computational Astrophysics

UNIVERSITY OF SYDNEY

Carslaw Building, (F07)
University of Sydney
Sydney, NSW 2006
Australia
Tel:
URL1: <http://www.physics.usyd.edu.au/jobs.html>
Email Inquiries: gfl@physics.usyd.edu.au

Attention: The Personnel Officer

Applications are invited for a Postdoctoral Fellow to work with Dr. Geraint F. Lewis, Dr. Tim Bedding and Dr. Mike Wheatland on the development of new inverse modeling techniques in gravitational lensing, stellar oscillations and/or solar flares. These studies will form part of the Australian initiative for the inclusion of theoretical astrophysics within the Virtual Observatory.

A PhD or equivalent in Astronomy is essential and applicants must show a proven ability for excellence in research. Applicants must also show evidence of the potential for future development and of the ability to work co-operatively with others. Experience in aspects of computational astrophysics is essential, and experience in high-level computer programming (including parallel processing), graphical representation of data/models and an understanding of observational procedures are desirable.

The position is full-time fixed term 12 months, subject to the completion of a satisfactory probation period for new appointees. Further offers of employment for up to two years are probable, subject to funding and need.

For further information contact:

Dr. Geraint F. Lewis Tel : +61 (0)2 9351 5184, e-mail: gfl@physics.usyd.edu.au

Dr. Tim Bedding Tel : +61 (0)2 9351 2680, e-mail: bedding@physics.usyd.edu.au

Dr. Mike Wheatland Tel : +61 (0)2 9351 5965, e-mail: wheat@physics.usyd.edu.au.

WE ARE AN EQUAL OPPORTUNITY EMPLOYER AND WE OFFER A SMOKE FREE WORKPLACE

Remuneration Package: up to \$61,745 - \$66,280 p.a. (which includes a base salary Level A \$52,176 - \$56,008 p.a., leave loading and up to 17% employer's contribution to superannuation)

Closing Date: 30/4/2004

No. 20667
Telescope Instrumentation Support Scientist/Astronomer
LARGE BINOCULAR TELESCOPE OBSERVATORY
933 N. Cherry Avenue
University of Arizona
Tucson, AZ 85721-0065
U.S.A.
Tel: 520-626-5231

FAX: 520-626-9333

URL1: <http://lbto.org>

(Observatory web site)

URL2: <http://www.uacareertrack.com>

(University of Arizona job site)

Email Submission Address: cevans@as.arizona.edu

Email Inquiries: rmw@as.arizona.edu

Attention: Carol Evans, Administrative Associate

Position Summary: The Large Binocular Telescope Observatory (LBTO) will operate the largest optical/infrared telescope in the world on the 3200 m summit of Mount Graham near Safford, Arizona. Over the next three years, three facility instruments will be commissioned and brought into routine use. These include a pair of wide-field prime focus optical imagers, a pair of multi-object double-beam optical spectrometers, and a pair of infrared imager/spectrographs capable of utilizing the facility adaptive optics system. In addition, two interferometric instruments are in active development and fabrication. The LBTO seeks two or more Instrument Support Scientists/Astronomers. Rank will be at the level of Assistant Staff Scientist, Associate Staff Scientist, or Staff Scientist. Salary is dependent upon qualifications and experience. A fraction of the incumbent's time may be designated for personal research. Instrument Support Scientists work at the LBTO headquarters on the University of Arizona campus in Tucson, AZ with scheduled shifts on the Mount Graham summit. Candidates must be capable of working effectively with visiting observers and engineers. **Duties and Responsibilities:** The Instrument Support Scientists will be responsible for scheduled and continuing maintenance, calibration and improvement of the facility instruments; preparation of documentation; support of visiting astronomers; quality control assessment; scientific performance monitoring; conducting observation block reviews; and coordination with instrument teams during construction and commissioning. The Instrument Support Scientists work under the direction of the LBTO Instrument Scientist and coordinate their activities with the Mountain Operations Manager, instrument specialists, and instrument groups. **Minimum Qualifications:** M.S. degree in astronomy or physics with at least three years of experience with astronomical instrumentation or observer support at a major research observatory. **Preferred Qualifications:** Ph.D. degree with at least five years of experience with astronomical instrumentation or observer support at a major research observatory. Familiarity with all aspects of modern astronomical instruments, observing techniques and data reduction are desirable. Reference U. of Arizona job # 30096

Address e-mail inquiries to Dr. R. Mark Wagner, LBTO Instrument Scientist, rmw@as.arizona.edu

No. 20669

Postdoctoral and Senior Research Awards in the Space and Planetary Sciences

NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES

Tel:

URL1: <http://www.national-academies.org/rap>

Attention:

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards, Summer Faculty Fellowships,

The National Research Council of the National Academies is accepting applications for awards for

independent scientific research at the postdoctoral level and beyond for research to be conducted in residence at US Government laboratories. Awards will be offered in most areas of science and engineering, including astronomy, planetology, astrophysics, solar research, cosmology and related disciplines.

Among participating laboratories are: Air Force Research Laboratory, Naval Research Laboratory, Naval Postgraduate School, NASA Astrobiology Institute, NASA Ames Research Center, NASA Goddard Space Flight Center, NASA Johnson Space Center, NASA Marshall Space Flight Center, NASA Kennedy Space Center, NASA Glenn Research Center, NASA Jet Propulsion Laboratory, NASA Langley Research Center.

Awardees design their own research projects to be compatible with the interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients range from \$36,000 to \$61,000 and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance.

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

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

No. 20670

**Postdoctoral and Senior Research Awards in the Space and Planetary Sciences
NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES**

Tel:

URL1: <http://www.national-academies.org/rap>

Attention:

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards, Summer Faculty Fellowships

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

Among participating laboratories are: Air Force Research Laboratory, Naval Research Laboratory, Naval Postgraduate School, NASA Astrobiology Institute, NASA Ames Research Center, NASA Goddard Space Flight Center, NASA Johnson Space Center, NASA Marshall Space Flight Center, NASA Kennedy Space Center, NASA Glenn Research Center, NASA Jet Propulsion Laboratory, NASA Langley Research Center.

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

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

No. 20671

**Postdoctoral and Senior Research Awards in the Space and Planetary Sciences
NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES**

Tel:

URL1: <http://www.national-academies.org/rap>

Attention:

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards, Summer Faculty Fellowships,

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

Among participating laboratories are: Air Force Research Laboratory, Naval Research Laboratory, Naval Postgraduate School, NASA Astrobiology Institute, NASA Ames Research Center, NASA Goddard Space Flight Center, NASA Johnson Space Center, NASA Marshall Space Flight Center, NASA Kennedy Space Center, NASA Glenn Research Center, NASA Jet Propulsion Laboratory, NASA Langley Research Center.

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

No. 20672

Post Doctoral Researcher

NEW MEXICO TECH

801 leroy Place

Wells Hall Room 9

Socorro, NM 87801

USA

Tel: 505-835-6962

FAX: 505-835-5337

URL1: <http://nmt.edu>

Email Submission Address: slopez@admin.nmt.edu

Email Inquiries: slopez@admin.nmt.edu

Attention: *Salina A. Lopez, HR Technician II*

New Mexico Tech seeks candidates for a postdoctoral position in astronomical instrumentation. The successful applicant will be expected to work as part of a NM Tech/Los Alamos National Laboratory (LANL) collaboration to develop visible and near IR- instrumentation for the 2.4-meter telescope facility planned for the Magdalena Ridge Observatory (MRO). A primary science driver for the 2.4-meter telescope is the characterization of small bodies in the solar system, including the follow up of recently discovered Near Earth Objects. The initial proposed instrumentation suite includes a visible wavelength imager and a visible/near-IR spectograph. However, applications from those interested in helping to develop additional innovative instrumentation to support the small bodies mission are especially encouraged.

The position will begin on or about September 1, 2004, pending final funding approval. The initial appointment will be for one year with the expectation of renewal based on the availability of continued funding.

Ph.D. or other doctorate level equivalent required in Astronomy or related field. Must have experience with the design and development of astronomical instrumentation. Experience with the use of astronomical instrumentation required. Experience with observational astronomy desired. Experience in small bodies research desired.

Applicants should provide a curriculum vitae, transcripts, a brief summary of interests and research plans, and the names and contact information of three references to: Human Resources 801 Leroy Place Box 28 Socorro, NM 87801. Review of applications will begin April 1, 2004 and continue until the position is filled. For additional details regarding this position, please contact the 2.4-meter telescope Project Scientist at (eryan@mro.nmt.edu). NMT is an Affirmative Action/Equal Opportunity Employer. e-mail applications not accepted.

No. 20677

**High Energy Astrophysics
UNIVERSITY OF NEW HAMPSHIRE
39 College Road
406 Morse Hall
Durham, New Hampshire 03824-3525
USA
Tel:**

Attention: *Professor Roy B. Torbert, Director, Space Science Center*

The Department of Physics and the Space Science Center within the Institute for the Study of Earth, Oceans and Space at the University of New Hampshire, seeks candidates at any rank for a tenure-track faculty position in high energy astrophysics, beginning as early as the 2004-2005 academic year. The applicant must have a Ph.D. or equivalent in Physics, Astronomy or Astrophysics, a strong commitment to teaching and a demonstrated record of independent research and support. Responsibilities include teaching physics courses at all levels, participation in Department and College academic activities, and astrophysics or solar physics research. Outstanding applicants in all areas of astrophysics will be considered, but primary areas of interest are X- and gamma-ray astronomy. The Physics Department has

twenty tenure-track faculty and offers programs leading to the B.S., B.A., M.S. and Ph.D. degrees. The University is a Land Grant, Sea Grant and Space Grant institution with approximately 13,000 undergraduate and graduate students. Send letter of application, curriculum vitae, statement of research, and the names, addresses and telephone numbers of three references to: Professor Roy B. Torbert, Director, Space Science Center, 39 College Road, University of New Hampshire, Durham, NH 03824-3525. Interviews of the applicants will begin around 15 March, 2004 and will continue until the position is filled.

The University is committed to enhancing the diversity of its faculty and staff and encourages applications from women, persons of color, persons with disabilities and veterans.

No. 20685

Postdoctoral Position in AGN and Black Hole Research

ROCHESTER INSTITUTE OF TECHNOLOGY

Department of Physics

54 Lomb Memorial Drive

Rochester, New York 14623-5603

USA

Tel: 585-475-5779

FAX: 585-475-5988

URL1: <http://astrophysics.rit.edu/>

Email Submission Address: djasps@rit.edu

Email Inquiries: djasps@rit.edu

Attention: David J Axon, Head of Physics

Postdoctoral Position in Astrophysics AGN and Black Holes Research Group Department of Physics
Rochester Institute of Technology

The AGN and Black Holes Research Group (David Axon, David Merritt Manasse Mbonye, Andrew Robinson, Andras Szell) at Rochester Institute of Technology (<http://www.rit.edu/~physics/>) invites applications for a NASA funded Post-Doctoral Research position. The successful applicant will work closely with Axon and Robinson on the determination of the Black Holes masses in AGN with double-peaked broad-Balmer lines using Hubble Space Telescope STIS long-slit spectroscopy of the circum-nuclear ionized gas.

The initial appointment will be for 1 year with possible renewal. Research experience in Active Galactic Nuclei, Galaxy Dynamics or a closely related field is desirable. In addition to working on the project applicants for the position are encouraged to maintain and develop their own research interests. Candidates should have a Ph.D. in Astrophysics.

Informal enquiries can be made by e-mail to djasps@rit.edu . Candidates should send a resume and the names and phone numbers of three current references to Dr. David J. Axon, Department of Physics, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603. Screening of applications will begin immediately and continue until the position is filled. Email submissions are strongly encouraged.

RIT is an equal opportunity, affirmative action employer strongly committed to a diverse faculty community. Minority candidates accounted for 31% of new faculty for the 2002-03 academic year.

No. 20688**Director, Large Binocular Telescope Observatory
LARGE BINOCULAR TELESCOPE CORPORATION****933 N. Cherry Avenue****Tucson, AZ 85721****USA****Tel: 520-621-9379****FAX: 520-621-7852****URL1: <http://lbto.org>***(project information)***URL2: <http://www.hr.arizona.edu>***(position information)***Email Submission Address: aspitz@as.arizona.edu*****Attention: Anna H. Spitz***

The Large Binocular Telescope Corporation (LBTC) seeks an Observatory Director who will have overall responsibility for the completion, commissioning and scientific operations of the Large Binocular Telescope (LBT). Located on Mt. Graham, Arizona, the LBT will be the world's largest optical/IR telescope. The LBT will have twin 8.4-m diameter primary mirrors spanning a 22.8-m baseline. The initial complement of instruments includes prime focus cameras and optical and infrared imaging spectrometers. The LBT will also have adaptive secondaries and capabilities for interferometric imaging at IR and optical wavelengths.

The LBT Observatory Director will report to the LBTC Board of Directors and will be formally employed through the University of Arizona. Qualifications for the position include: (1) demonstrated experience in the management of large, complex, state-of-the art scientific projects of comparable scale to the LBT; (2) a Ph.D. in Astronomy, Physics or a related field; and (3) the ability to work with LBTC Board, the project staff and scientific communities commensurate to achieve the technical and scientific goals of the project within the resources available.

Applications, expressions of interest, nominations, or requests for additional information should be sent to the attention of Anna H. Spitz. Applications must include a bibliography, vita, and the names of three references. The selection process will begin on April 2, 2004 and continue until an appointment is made. Applicants will be considered without regard to citizenship or national origin. The University of Arizona is an EEO/AA employer. M/W/D/V.

No. 20692**Postdoctoral Research Associate in Interferometry Instrumentation****NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY****801 Leroy Place****Wells Hall Box 31****Socorro, New Mexico 87801****USA****Tel: 505 835 5809****FAX: 505 835 5707****URL1: www.mro.nmt.edu***(MRO Website)***Email Submission Address: mce@kestrel.nmt.edu****Email Inquiries: mce@kestrel.nmt.edu**

Attention: Michelle Creech-Eakman, MROI Project Scientist

New Mexico Tech (NMT), the University of Cambridge, the University of Puerto Rico and several other New Mexico institutions have joined efforts to build the Magdalena Ridge Observatory Interferometer (MROI). MROI, scheduled for completion in 2008, will consist of an array of 10 telescopes sited at 10,400 ft altitude and will make images of astronomical objects with unprecedented detail.

Applications are invited for a Postdoctoral Research Associate in the Dept. of Physics to work on the development and design of instrumentation for MROI. The ideal candidate will have experience both in optical/IR interferometry and instrumentation design and commissioning. The position will begin on or about September 1, 2004, but an earlier starting date may be arranged, pending final funding approval. We anticipate the position will last two years, with a possible third year renewal.

We seek a candidate who is interested in working on the design, fabrication and testing of any one (or more) of the following: acquisition systems, fast tip-tilt sensors, delay lines, optical and infrared beam combiners, and low-noise detector cameras. Experience with optical/IR instrumentation would be a significant advantage.

Applicants should provide a curriculum vitae, a brief summary of interests and research plans, and arrange for three letters of reference to be sent to the address above. Review of applications will begin April 1, 2004 and continue until the position is filled. For more details please visit our website at www.mro.nmt.edu or contact the Project Scientist above. NMT is an AA/EOE

No. 20693

Millimeter Detector Arrays

GODDARD SPACE FLIGHT CENTER

Code 685

Greenbelt, MD 20771

USA

Tel: 301-286-0853

FAX: 301-286-1617

Email Submission Address: Alan.J.Kogut@nasa.gov

Email Inquiries: Alan.J.Kogut@nasa.gov

Attention: Dr. Alan Kogut, Search Chair

Goddard Space Flight Center Millimeter Detector Arrays

The Space Sciences Directorate and the Applied Engineering and Technology Directorate at NASA's Goddard Space Flight Center (GSFC) seek a researcher for a civil service position to develop background-limited millimeter and submillimeter wave focal plane detector arrays. Suitable applicants will likely have a PhD in physics, astronomy, electrical engineering, or related field. A broad-based technical background, possibly including but not limited to, microwave/optical metrology, instrumentation, materials science, and device reliability are desirable. Candidates should have a specialized knowledge or experience in one or more of the following areas: electromagnetic simulation and RF circuit modeling; superconducting structures; bolometric device fabrication, design, and characterization; cryogenic techniques; and low-noise electronics.

Familiarity with commercial electromagnetic simulation software and techniques is a plus. The successful candidate will lead an effort to design, fabricate, and test focal plane detector arrays for use in space based and balloon borne instruments. The position is available immediately. GSFC provides negotiable start-up packages. Applicants should submit a curriculum vitae, list of publications, summary of research interests, and arrange for at least three letters of recommendation to be sent to: Dr. Alan Kogut, Search Chair, Code 685, Goddard Space Flight Center, Greenbelt, MD 20771. NASA is an AA/EEO employer.

New Jobs This Month

No. 20698

Research Associate

PENN STATE

2582 Gateway Drive

State College, PA 16801

Tel:

URL1: <http://swift.gsfc.nasa.gov>

URL2: <http://www.swift.psu.edu/xrt/>

Attention: Dr. David Burrows

The Department of Astronomy & Astrophysics of the Pennsylvania State University has an immediate opening for the position of Instrument Scientist on the Swift X-ray Telescope (XRT) instrument. The Swift Gamma-Ray Burst Explorer (<http://swift.gsfc.nasa.gov>) is a NASA MIDEX-class Explorer mission scheduled for launch in the fall of 2004. The XRT instrument (<http://www.swift.psu.edu/xrt/>) is a Wolter I grazing-incidence telescope designed for rapid, autonomous determination of GRB positions and spectroscopic observations of GRB afterglows. The Swift Mission Operations Center is located at Penn State, and this position would involve 50% assignment to the Swift Science Operations Team, with the remaining 50% for science analysis of Swift GRB/afterglow data and related science. The programmatic responsibilities include planning observing timelines, monitoring XRT instrument performance, and monitoring overall observatory scientific performance. Science opportunities include participation in several of the Swift Key Projects (http://swiftsc.gsfc.nasa.gov/docs/swift/proposals/swift_keyprojects.html). The position carries the rank of Research Associate (equivalent in rank to Assistant Professor), and requires a PhD in Physics, Astronomy, or a closely related field. Previous experience with either X-ray instrumentation, satellite operations, or X-ray astronomy data analysis is desirable. Initial appointment is for one year with renewal subject to continued funding by NASA. Due to US government ITAR regulations, preference will be given to US citizens or permanent residents and to citizens of NATO member states: Argentina, Australia, Bahrain, Egypt, Israel, Japan, Jordan, New Zealand, or the Republic of Korea. Applicants should submit a resume and list of three references. The position will be filled as soon as an acceptable applicant is found. Women and minorities are encouraged to apply. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

No. 20700

RESIDENT ASTRONOMER

INSTITUTO DE ASTRONOMIA, OBSERVATORIO ASTRONOMICO NACIONAL, UNAM

P.O. BOX 439027

SAN DIEGO, CALIFORNIA 92143

USA

Tel: 0115-646-1744580 EXT. 301

FAX: 01152646-1744777

Email Submission Address: jefatura@astro.unam.mx

Email Inquiries: jefatura@astro.unam.mx

Attention: JOAQUIN BOHIGAS, HEAD OF THE NATIONAL ASTRONOMICAL OBSERVATORY

RESIDENT ASTRONOMERS OBSERVATORIO ASTRONÓMICO NACIONAL UNAM, MÉXICO

The National Autonomous University of Mexico (UNAM) offers a resident-astronomer position at the National Astronomical Observatory at San Pedro Martir-Ensenada, Baja California, Mexico, beginning October 16th, 2004. This position is for a period of two years with the possibility of extension to three (or more) years. The successful candidate will be required to spend about 120 nights per year at the Observatory in the San Pedro Mártir mountains of Baja California, Mexico. Her/His tasks will include introducing the telescope and peripheral instruments to visiting astronomers and assisting them at the beginning of their observing runs and also during non-standard observations; contribute in tasks such as testing, calibration and maintenance work and with writing documentation on new and existing astronomical telescope and peripheral instruments, including control and data-acquisition systems. She/He will be encouraged to carry out their own observational and research projects at the observatory. Current operational instruments include 2.1 m., 1.5 m. and 84 cm. Telescopes, Boller & Chivens and Echelle optical spectrographs, optical scanning Fabry-Pérot, near and mid-infrared cameras and spectrographs, and stellar photometers. Applicants should have a Ph.D. in Astronomy, preferably with a strong background in observational or experimental astrophysics. Both recent recipients of a doctorate as well as more experienced observers will be considered. Bilingual (Spanish and English) scientists are especially encouraged to apply. Salary and benefits are adjusted according to the cost of living in northwestern Mexico. To apply, send a letter of intention via e-mail before May 15th, 2004 to jefatura@astro.unam.mx ., a letter of application, including description of research experience, curriculum vitae, and three letters of recommendation to:

Joaquín Bohigas B. Head of the National Astronomical Observatory P.O. Box 439027 San Diego Ca., 92143 USA

No. 20701

Staff Scientist

CALIFORNIA INSTITUTE OF TECHNOLOGY

770 So. Wilson Ave.

MS 100-22

Pasadena, CA 91125

USA

Tel: 626-395-1802

FAX: 626-397-7018

Email Submission Address: meb@ipac.caltech.edu

Email Inquiries: kmg@ipac.caltech.edu

Attention: Mary Ellen Barba, Supervisor of Staff Operations

The NASA Herschel Science Center (NHSC) at IPAC seeks to fill a staff scientist position. The successful applicant will work with other NHSC scientists and engineers and their counterparts in Europe to develop tools and expertise in the European Space Agency's Herschel mission in order to

support the US astronomical community using Herschel. Herschel, a far-infrared/submillimeter mission is scheduled for launch by ESA in 2007. Minimum requirements for the position: PhD in physics, astronomy, or a related discipline; two or more years of work-related job experience with a record of scientific publications; and the ability and willingness to travel to Europe on a regular basis. Applicants with experience in science planning and data analysis for space observatories and/or mid-far IR detectors will be given preference. Applicants whose research interests include observational infrared and/or space-based astrophysics are highly desirable. Please submit a current CV, a list of refereed and submitted publications including titles, a summary of research, and the names/contact information of three references to the address above no later than May 15, 2004.

No. 20702**Postdoctoral Scholar in Submillimeter Wave Astronomy****CALIFORNIA INSTITUTE OF TECHNOLOGY****Mail Code 320-47****1200 E. California Blvd.****Pasadena, CA 91125-4700****USA****Tel: 626-395-4278****FAX: 626-796-8806****URL1: <http://www.submm.caltech.edu/cso/cso>****(Caltech Submillimeter Observatory)****Email Submission Address: phillips@submm.caltech.edu*****Attention: T. G. Phillips, Prof. of Physics***

Postdoctoral Scholar in Submillimeter Wave Astronomy California Institute of Technology

The California Institute of Technology operates a 10.4m Leighton telescope (Caltech Submillimeter Observatory, CSO; <http://www.submm.caltech.edu/cso/>) at 4,200m on Mauna Kea, Hawaii. The telescope operates in the 200-900 GHz (1.5-0.32mm) range and both heterodyne spectroscopy and bolometer studies can be carried out. The observatory utilizes SIS receiver and low temperature bolometer arrays. A postdoctoral scholar position is available at Caltech in Pasadena, to work in the CSO group, especially in observations of the evolution of galaxies and their far-infrared properties out to high redshifts. Appointment is contingent upon completion of Ph.D. requirements. The initial appointment is for one year, renewable to a total of three years. Applicants should send a curriculum vitae, list of publications, statement of research interest and arrange for three letters of recommendation to be sent to: T. G. Phillips, Mail Code 320-47, Caltech, 1200 E. California Blvd., Pasadena, CA 91125, by 31 May, 2004.

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

No. 20703**Post-doctoral Position in Observational Astrophysics****UNIVERSITY OF LEEDS****School of Physics and Astronomy****UK****Tel: +44 113 343 3864****FAX: +44 113 343 3900****URL1: <http://ast.leeds.ac.uk>**

(School of Physics and Astronomy)

Email Submission Address: mgh@ast.leeds.ac.uk

Email Inquiries: mgh@ast.leeds.ac.uk

Attention: Dr Melvin Hoare

A PPARC-funded post-doctoral position in observational astrophysics is available for a fixed term of 2 years in the first instance, with the possibility of extension to a maximum of 3 years. Leeds is leading a major effort to systematically find all the massive young stars in the Galaxy. The appointee will co-ordinate the multi-wavelength ground-based follow-up campaign of sources selected from the mid-IR MSX satellite. In addition, work will soon begin on the much deeper SPITZER and UKIRT/WFCAM galactic plane surveys allowing intermediate mass young stars to be studied as well as dusty main sequence and evolved stars. Applicants should have, or be about to obtain, a PhD in Astrophysics. Experience of IR, millimetre or radio observing is desirable, as is experience in survey astronomy. This post is available immediately and must be taken up by 30 September 2004 at the latest.

Further information on Astrophysics at Leeds can be seen on our web page at <http://www.ast.leeds.ac.uk>

Research 1 A (£18,265 - £27,339 p.a. pay award pending)

Informal enquires to Drs Hoare and Oudmaijer tel 0113 343 3864/3886 or e-mail at mgh@ast.leeds.ac.uk/roud@ast.leeds.ac.uk

Application forms and further particulars can be obtained from Dr Melvin Hoare, School of Physics and Astronomy, University of Leeds, Leeds LS2 9JT or alternatively e-mail mgh@ast.leeds.ac.uk

Job ref 036031 Closing date 1 May 2004.

No. 20704

Deputy Director for Science and Technology

LAWRENCE LIVERMORE NATIONAL LABORATORY

Tel:

URL1: <http://jobs.llnl.gov>

Attention: please visit web site to apply

Deputy Director for Science and Technology Lawrence Livermore National Laboratory Livermore, CA

The Lawrence Livermore National Laboratory (LLNL), a premier applied-science, multi-disciplinary national security laboratory, is seeking an outstanding individual to serve as Deputy Director for Science and Technology (DDST). The ideal candidate will have a strong vision for research and its application to national needs, and will be an articulate communicator with both internal and external scientific communities. He or she will be an effective and collegial administrator who is energetic, committed, and tireless in working with the Laboratory Director. The Deputy Director leads the development and implementation of the Laboratory's strategic science and technology plan, fosters the development of advanced concepts and practices, and oversees the recruitment, development, and retention of highly qualified personnel. The Deputy Director works with the Director and Deputy Director for Operations to develop and execute institutional strategy. The Deputy Director has overall responsibility for the quality

and health of science and technology Laboratory-wide and has line responsibility for a \$110 million institutional portfolio including the Laboratory Directed Research and Development Program, collaborative research with University faculty and staff, and institutional planning activities and reporting. The Deputy Director is the principal contact for the Laboratory on science and technology matters and represents LLNL externally to constituents such as the University of California, the National Nuclear Security Administration/Department of Energy, DOE/Office of Science, and peer organizations, national laboratories, universities and private industry.

The Deputy Director will have a Ph.D. or equivalent in a scientific or engineering discipline, have a distinguished research record, and have demonstrated success in leading and managing significant scientific programs, projects, or organizations. A working knowledge of the DOE/NNSA laboratory complex and/or the nation's nuclear weapons establishment is essential. U.S. citizenship and ability to obtain a DOE security clearance is required.

LLNL offers a competitive salary/benefits package. To view this job, go to the Featured Job Postings at <http://jobs.llnl.gov> and select this position. When applying, reference source code AIAA384DO. LLNL is operated by the University of California for the National Nuclear Security Administration/Department of Energy. EOE/AA

Lawrence Livermore National Laboratory

<http://jobs.llnl.gov>

No. 20705

Postdoctoral Associate (Observational Astronomy)
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Cambridge, MA 02139
USA
Tel:
URL1: <http://web.mit.edu/jobs>
Email Submission Address: lewin@space.mit.edu

Attention: Professor Walter Lewin

Postdoctoral Associate

The MIT Center for Space Research has an opening for a postdoctoral research associate in the group of Professor Walter Lewin to actively participate in data reduction (image analysis and spectroscopy) using Chandra, XMM and HST data.

Requirements: a strong background in observational astronomy with proven ability to conduct independent research. A Ph.D. in astronomy or physics is required. The appointment will be for two years, renewable for one to two additional years based on satisfactory performance.

Applicants should submit a curriculum vitae, a list of publications, and a statement of research interests. They should also make arrangements to have three letters of recommendation sent to lewin@space.mit.edu. To apply on-line: web.mit.edu/jobs (please reference job number MIT-00000840). The application deadline is May 15, 2004. EOE.

No. 20706
Postdoctoral Associate (Observational Astrophysics)
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Cambridge, MA 02139
USA
Tel:
URL1: <http://web.mit.edu/jobs>
Email Submission Address: burles@mit.edu

Attention: Professor Scott Burles

Postdoctoral Associate

The MIT Center for Space Research has an opening for a postdoctoral research associate in the group of Professor Scott Burles to actively collaborate on absorption line studies of the intergalactic medium with large spectroscopic datasets.

Requirements: a Ph.D. in physics or related field. Should have experience in observational astrophysics, preferably optical/IR high resolution spectroscopy; and be proficient at data reduction and analysis.

The appointment will be for two years. Extension for an additional year is possible if funds are available and performance is satisfactory.

Qualified applicants should send a curriculum vitae and a statement of research interests. They should also make arrangements to have three letters of recommendation sent to burles@mit.edu. To apply online: web.mit.edu/jobs (Please reference job number MIT-00000906.) Applications will be reviewed beginning April 15, 2004. Applications must be received by April 30, 2004. EOE.

No. 20707
Assistant Instrument Scientist
AURA NOAO
PO Box 26732
Tucson, AZ 85726-6732
USA
Tel:
Email Submission Address: hrnoao@noao.edu

Attention: NOAO/NSO, Human Resources Manager

Assistant Instrument Scientist TUCSON, ARIZONA AA/EEO Employer The Global Oscillation Network Group (GONG) Program of the National Solar Observatory (NSO) has an opening for a fulltime Instrument Scientist (Junior/Assistant level, depending on years of experience) who will assist the GONG Instrument Scientist in the analysis and interpretation of GONG data, and provide hands-on optics, instrumentation, and technical support both in Tucson and at the remote sites. Will participate in the on-going operation, and scientific and technical evaluation of the worldwide network of instruments, with particular emphasis on field instrument performance, maintenance, upgrade and improvement. Requirements include a Ph.D. in astronomy, optical science, physics, or engineering, and at least three years experience in the areas of optics and instrumentation. Must have demonstrated the ability to work

with scientists, instrument support staff, and data reduction staff, and function as part of a team. The successful applicant must have or be able to obtain work authorization in the United States. It is expected there will be approximately three trips per year, each lasting typically two to three weeks. The trips are usually (but not always) scheduled in advance. There is a site in California, Hawaii, Western Australia, India, the Canary Islands, and Chile. The balance of the time will be spent in Tucson.

To apply, please submit an electronic CV and three professional letters of references by May 15, 2004 to hrnoao@noao.edu or mail to: NOAO/NSO Human Resources Manager Attn: GONG Instrument Scientist P.O. Box 26732 Tucson, Arizona 85726-6732 We value and foster a diverse research environment. Women and underrepresented minorities are strongly encouraged to apply. Preference granted to qualified Native Americans living on or near the Tohono O'Odham reservation.

No. 20709

Postdoctoral fellowship Multiwavelength Emission of Active Galaxies

INAF - OSSERVATORIO ASTROFISICO DI ARCETRI

Largo E. Fermi, 5

Italy

Tel: ++39 055 2752247

FAX: ++39 055 220039

URL1: <http://www.arcetri.astro.it/English/>

Email Submission Address: maiolino@arcetri.astro.it

Email Inquiries: maiolino@arcetri.astro.it

Attention: Roberto Maiolino, Fellowships Program

The Arcetri Astrophysical Observatory (Florence) intends to award one post-doctoral fellowship related to studies of multi-wavelength emission of active galaxies (starburst and/or AGN). Applicants must have a Ph.D. or equivalent. In case of Italian citizens, working experience in a foreign institution will be considered favorably.

The fellow will take part in the activity of the Arcetri Observatory in one or more of the following fields: analysis and interpretation of multi-wavelength data of local and distant active galaxies, cross-correlation of multiwavelength catalogs to identify and investigate active galaxies at high redshift, observations and analysis of data from near-IR and optical surveys carried on by the local group, modelling of infrared and submm/mm emission of active galaxies at low and high redshift, metallicity evolution of active galaxies. Applicants should have previous experience in the relevant areas.

The gross yearly salary will be 26,000 Euro, and additional 1000 Euro will be provided for relocation expenses. The fellowship will be granted for one year with the possibility of renewal for a second and a third year (subject to availability of funds and to the evaluation of performance). The fellowship will not entail social benefits or medical insurance, and the fellow will be requested to cover himself/herself with basic medical insurance. No special application forms are required. The applicants should send a CV, list of publications, a summary of past activity (1 page) and a one-page statement of research interests. They should also arrange that three letters of reference are sent independently. The deadline for applications is May 31, 2004.

No. 20710

Postdoctoral research position on Starbursts from the local Universe to high redshift

GENEVA OBSERVATORY, GENEVA UNIVERSITY

51, Ch. des Maillettes

Sauverny, CH 1290
Switzerland
Tel: +41 22 755 26 11
FAX: +41 22 755 39 83
URL1: <http://obswww.unige.ch/sfr>
Email Submission Address: daniel.schaerer@obs.unige.ch
Email Inquiries: daniel.schaerer@obs.unige.ch

Attention: Daniel Schaerer, Prof. Dr.

The Geneva Observatory in Geneva, Switzerland, announces the availability of a research position at the postdoctoral level, open to applicants of all nationalities.

The successful candidate will work on a project aimed at studying starbursts nearby, at intermediate redshift ($z \sim 2-3$), or in the early Universe ($z > 7$), involving multi-wavelength observations and/or theoretical modeling. The successful applicant will in particular have access to ground-based observational data covering the optical to near-IR (including ESO/VLT data), and state-of-the-art modeling tools. He/she will mostly work in collaboration with Prof. Daniel Schaerer in Geneva.

The Geneva Observatory and the associated Laboratory of Astrophysics of the Swiss Federal Institute of Technology in Lausanne carry out observational, interpretative and theoretical research in the fields of extra-solar planets, stellar evolution, stellar physics, high energy astrophysics, galaxy evolution and dynamics, and observational cosmology.

The appointment will be for one to two years starting around October 1, 2004 (negotiable).

Qualified candidates are encouraged to send their application including a CV and publication list, description of research experience and interests, and contact information of three references preferably via email to the above address. All applications received by 1 May, 2004 will receive full consideration. Informal enquiries with Daniel Schaerer (daniel.schaerer@obs.unige.ch) are welcome.

No. 20711
FCRAO Postdoc/MM-Wave Instrumentation
UNIVERSITY OF MASSACHUSETTS
710 N. Pleasant St.
619 E Lederle Grad. Research Tower
Amherst, MA 01003
Tel: 413-545-0789
FAX: 413-545-4223
URL1: <http://www.astro.umass.edu/~wilson/CDL>

Attention: FCRAO Search Committee

FCRAO Postdoctoral Research Associate/ University of Massachusetts/ Search Extended

The Continuum Detector Group at the Five College Radio Astronomy Observatory (FCRAO) at the University of Massachusetts, Amherst, invites applicants to apply for a post-doctoral research position. The successful candidate will perform research with Professor Grant Wilson in the fields of both

instrumentation and observational astronomy/cosmology by aiding in the commissioning and first-light observations of two mm-wavelength bolometric cameras BOLOCAM II and SPEED. BOLOCAM II is a 144 pixel bolometer array designed for efficient, wide-field mapping of the sky at either 1.4 or 2.1 mm wavelengths. SPEED is a 4 pixel/16 bolometer prototype camera designed to make simultaneous measurements of the mm-wave SED of an object in four frequency bands in each pixel. More information on the BOLOCAM II and SPEED projects can be found at <http://www.astro.umass.edu/~wilson/CDL>.

The position requires a Ph.D. in physics or astronomy or a related field with a strong background in instrumentation and/or observational astronomy. It is nominally funded for two years with the possibility of a third year, with the annual contract renewals following satisfactory yearly reviews. The salary will be commensurate with qualifications and experience.

Evaluation of applications will begin on May 17, 2004, and continue until the position is filled. Please send a letter describing your background, a curriculum vita, and have three letters of reference sent to: FCRAO Search Committee, Five College Radio Astronomy Observatory, 619 Lederle GRT, University of Massachusetts, Amherst, MA 01003. The University of Massachusetts is an equal opportunity/affirmative action employer. Women and members of minority groups are encouraged to apply.

No. 20712

System Support Associate

AURA - GEMINI OBSERVATORY

670 N. A'ohoku Place

Hilo, HI 96720

US

Tel:

FAX: (808) 933-1624

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

Email Submission Address: gemini-jobs@gemini.edu

Attention: Human Resources/SSA

Opportunity for qualified applicants for the position of System Support Associate for our Gemini North Facility. The System Support Associate will assist staff scientists and engineers by operating the telescope, instruments and computer systems during day-time and night-time engineering and science use at the summit. Sea level support responsibilities may include data archiving and distribution, data quality assessment, instrument support, observing preparation, and user interface software development. Must possess good communication skills and knowledge of software and hardware systems. Previous experience in ground-based telescope operation strongly advantageous. Must possess working knowledge of astronomical instruments and optical and/or infrared observing techniques. Masters in Astronomy or Physics desirable. BS in science, engineering, astronomy, or computer science and relevant experience as minimum requirements. Knowledge of UNIX, TCL, C, Java and Perl a plus. Requires a valid driver's license, clean driving record and the ability to drive 4-WD vehicles. Must be safety conscious, willing to participate in safety training and assume safety responsibilities at night at the summit.

The GEMINI OBSERVATORY is a partnership of seven nations: the USA, UK, Canada, Australia, Argentina, Brazil and Chile, building and operating state-of-the-art, ground-based 8-m infrared telescopes in Hawaii and Chile. For more information about Gemini, visit our Web site:

www.gemini.edu.

Applicants should send a resume with a statement relating education and experience to the needs of this position, and the names of three individuals familiar with the applicant's credentials from whom letters of reference can be requested, by May 1st 2004.

No. 20713

**Postdoctoral position in GRB theory
INSTITUT D'ASTROPHYSIQUE DE PARIS**

98 bis boulevard Arago

France

Tel: 33 1 44 32 81 87

FAX: 33 1 44 32 80 01

Email Submission Address: mochko@iap.fr

Email Inquiries: mochko@iap.fr

Attention: Robert Mochkovitch, Dr.

Postdoctoral position in gamma-ray burst theory Institut d'Astrophysique de Paris

The Institut d'Astrophysique de Paris (<http://www.iap.fr>) invites application for a postdoctoral position in gamma-ray burst theory. Ongoing research at IAP in the GRB field includes, among other things, modelling of the internal shock phase, study of X-ray rich GRBs and X-ray flashes, description of early afterglows and study of high-z GRBs.

The candidate will join our group to carry out original research in GRB theory (GRB physics and/or cosmological applications). A strong background in GRB studies will be appreciated. The position is open without any restriction for citizenship. The starting date is September or October 2004.

Interested scientists are invited to contact Dr. Robert Mochkovitch (mochko@iap.fr) or Dr. Frederic Daigne (daigne@iap.fr).

Candidates should send before May 1st 2004 (by e-mail or ordinary mail) a curriculum vitae, a publication list and a summary of current research interests (2 pages max). They should also arrange for two reference letters to arrive by the same date.

No. 20714

**Postdoctoral Research Associate
CALIFORNIA INSTITUTE OF TECHNOLOGY**

770 So. Wilson Ave.

MS 100-22

Pasadena, CA 91125

USA

Tel:

Attention: Mary Ellen Barba, Supervisor of Staff Operations

Postdoctoral Research Associate in Infrared Astronomy Spitzer Science Center (SSC) California

Institute of Technology 770 So. Wilson Ave. MS 100-22 Pasadena, CA, 91125 USA

Attention: Mary Ellen Barba Supervisor of Staff Operations

Applications are invited for a postdoctoral research position to work with Drs. S. Carey, J. Ingalls, A. Noriega-Crespo, and other SSC staff members and postdocs on the analysis of the extended emission using the Spitzer First Look Survey data. The applicant is expected to know and explore different algorithms to analyze the structure of the extended mid-infrared emission, as well as a strong interest in astrophysics.

Candidates should have obtained, by the starting date, a Ph.D. in Astronomy, Physics, Astrophysics, or equivalent. Research experience with mathematical techniques on structure and anticorrelation functions, Fourier and wavelet spectra analysis is highly desirable.

The SSC is on the Caltech campus and is administratively part of the Infrared Processing and Analysis Center. Postdoctoral Research Associates may apply for time at Palomar observatory, and are encouraged to use SPITZER for their research. Support will be provided for computing, travel to conferences or observatories, page charges, and similar research funds. This position is funded by NASA for a minimum one year with additional years contingent upon performance and continued funding. The start date is flexible, but preferably before September 2004. Applications should include a letter describing relevant experience and interests (two-page limit), curriculum vita, bibliography, and the names and contact information of three references. The application deadline is 15 May 2004.

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

No. 20715

Postdoctoral Research Associate

CALIFORNIA INSTITUTE OF TECHNOLOGY

1200 E. California Blvd.

MS 220-6

Pasadena, CA 91125

USA

Tel:

Email Submission Address: rho@ipac.caltech.edu

Email Inquiries: rho@ipac.caltech.edu

Attention: Dr. Jeonghee Rho

Postdoctoral Researcher in Supernova Remnants/Star Formation/ISM Studies CALIFORNIA
INSTITUTE OF TECHNOLOGY Spitzer Science Center 1200 E. California Blvd. MS 220-6 Pasadena,
CA 91125

Attention: Dr. Jeonghee Rho

Applications are invited for a postdoctoral research position at the Spitzer Science Center to work on supernova remnants and star formation in collaboration with Drs. Jeonghee Rho and William Reach. The successful applicant will join a multi-wavelength study of supernova remnants interacting with molecular clouds and will participate in the analysis and interpretation of near- and far-infrared (Palomar, MSX,

2MASS and Spitzer) and X-ray (Chandra, ASCA and ROSAT) observations of supernova remnants and pulsars. The successful launch of the Spitzer Space Telescope adds to the rich research activities at our Center. The candidate will have some independent research time. Applicants who have experience in IR or X-ray observations and/or research interest in the interstellar medium, supernova remnants and star formation, are particularly encouraged to apply. The appointment is for two years.

Interested applicants should send a curriculum vitae, bibliography, and a brief statement of research interests, and arrange for three letters of reference to be sent to the above address no later than 15 May 2004. For further information, please contact Dr. J. Rho (rho@ipac.caltech.edu). Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

No. 20716

Postdoctoral Position in Experimental Cosmology

COLUMBIA UNIVERSITY

Department of Physics

550 W. 120th Street, Mail code 5247

New York, NY 10027

USA

Tel: (212) 854-4987

FAX: (212) 854-8121

URL1: <http://calvin.phys.columbia.edu/>

Email Submission Address: amber@calvin.phys.columbia.edu

Attention: Amber Miller, Assistant Professor

Applications are invited for a postdoctoral position in experimental cosmology at Columbia University with Professor Amber Miller. We are currently working on several instruments that will measure the cosmic microwave background (CMB). Experiments include both those designed to make detailed measurements of the small-scale temperature and polarization anisotropy of the CMB, and to observe clusters of galaxies via the Sunyaev-Zeldovich effect. We are also working on developing new technology for cold mm-wave optics for these and related experiments. Candidates should hold a Ph.D. in physics, astronomy, or a closely related field. Previous experience in one or more of the following areas is desirable: cosmology, low-noise electronics, telescope design, cryogenics, microwave, millimeter-wave, sub-millimeter instrumentation, or MEMS engineering. Please contact Amber Miller for additional information. Applicants should send a curriculum vitae, brief summary of research experience, bibliography, and three letters of recommendation to the above address. Applications will be reviewed beginning April 15, 2004 and will be considered until the position is filled. Columbia University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

No. 20717

Stellar and Nebular Spectroscopy

CATHOLIC UNIVERSITY OF AMERICA

620 Michigan Ave., N.E.

Washington, DC 20064

USA

Tel: 202-319-5315

FAX: 202-319-4448

Email Submission Address: bruhweiler@cua.edu

Email Inquiries: bruhweiler@cua.edu

Attention: *Prof. Fred Bruhweiler, Professor & Director*

A postdoctoral position is available immediately to work with Dr. Theodore Gull (NASA) and CUA researchers at the nearby NASA/Goddard Space flight Center in the area of atomic and nebular/stellar spectroscopy in support of funded HST/STIS and FUSE studies of Eta Carinae and its ejecta. A huge observational dataset have been acquired over the past six years, including observations under a Hubble Treasury proposal to follow Eta Carinae and its ejecta through the spectroscopic minimum that occurred in July 2003. The data include STIS longslit CCD and echelle spectra, ACS/HRC imagery, FUSE spectra, plus archival IUE data. Primary emphasis will be placed on interpreting the nebular emission and absorption signatures in the spectra. Over two thousand emission and absorption lines have been identified of structures near Eta Carinae and of ejecta in line of sight. The successful candidate should have a working knowledge of spectra of iron-like elements and of spectroscopic data analysis, as well as modeling the physical conditions in the nebulosities. Laboratory spectroscopic studies with Lund Univ. (Sweden) and NIST may be possible. An international science team, headed by Kris Davidson (U.MN), is working collaboratively on this activity. The initial appointment will be for a period of two years with a possible third year extension. Interested applicants should send by email a resume', a brief statement of research interests, a list of publications, and the names of at least three references to the above address. CUA is an Affirmative Action/Equal Opportunity Employer

No. 20719

Technology Development Manager

UNITED KINGDOM ASTRONOMY TECHNOLOGY CENTRE

The Royal Observatory

Blackford Hill

Edinburgh, Midlothian EH9 3HJ

United Kingdom

Tel: +44 131 668 8437

FAX: +44 131 668 8292

Email Submission Address: atcrecruitment@roe.ac.uk

Email Inquiries: atcrecruitment@roe.ac.uk

Attention: *Caroline Roberts, HR Assistant*

UK ASTRONOMY TECHNOLOGY CENTRE

TECHNOLOGY DEVELOPMENT MANAGER (07/04)

The UK ATC is the national centre for the design and production of world leading astronomical telescopes, instruments and systems. We are a science-driven, professional engineering organisation employing state-of-the-art technology in the fields of cryogenics, mechanical engineering, optics, computing and electronic engineering.

We are looking for a dynamic scientist, engineer or technologist who wishes to be a key part of our mission to develop the capacity of the UK and Europe to lead the world in astronomical technology. You will coordinate a Joint European Research Activity as part of the Framework 6 OPTICON Integrated Infrastructure Initiative. You will help develop roadmaps for the European optical and infrared astronomy community and will be responsible for the generation of proposals and funding for

technology development programmes internal to the ATC and as part of wider collaborations.

You must have a relevant degree and several years' experience in technology development and project management in a collaborative environment. You must also have a proven track record in the management of innovation and experience in both project financial management and technology roadmapping would be beneficial. We need someone with excellent communication and negotiation skills with an aptitude for problem solving. Experience in development and use of astronomical instruments would be very advantageous.

The salary range this post is £26,616 to £33,269. Other benefits include a generous leave allowance, a healthcare package and a choice of final salary and stakeholder pension schemes.

No. 20720

University Lecturer in Theoretical or Observational Astronomy
INSTITUTE OF ASTRONOMY, UNIVERSITY OF CAMBRIDGE
Madingley Road
UK

Tel: 44 1223 337516

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

URL2: <http://www.ast.cam.ac.uk>
(IoA)

Email Inquiries: douglas@ast.cam.ac.uk

Attention: Mrs D. Sword

Applications are invited for a tenured-rank post in astronomy or astrophysics at the Institute of Astronomy. The vacancy is available from 1 October 2004 at the level of University Lecturer. Candidates are sought with experience in any area of theory or observation. The Institute's current activities include work in cosmology and large-scale structure of the Universe, the formation, structure and evolution of galaxies, quasars, high-energy astrophysics, stellar dynamics, N-body simulations, star formation and evolution, accretion discs, helio and asteroseismology, gravitational lensing, numerical hydrodynamics and instrumentation for large optical and IR telescopes. The UK is a partner in the Gemini observatory and a member of ESO. The successful applicant would be expected to contribute to these or other research programmes and interact with other members of the Institute as well as astronomers in other related departments in Cambridge. The appointee would also be expected to contribute to the undergraduate and postgraduate teaching needs of the Institute.

The salary scale is 24,097 to 37,187 pounds sterling depending upon current salary and experience. The appointment will be for three years in the first instance, and is renewable to retiring age (67).

Applications including a cv, publication list, a research plan, a PD18 cover sheet (available here) and the names of three referees should be sent to: Mrs D. Sword, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, UK, as soon as possible, and no later than 28 May 2004. Enquiries concerning this post may be made to Professor Douglas Gough at the Institute (email: douglas@ast.cam.ac.uk).

Further information on the Institute of Astronomy is available at www.ast.cam.ac.uk.

No. 20722

Temporary Faculty position in Physics/Astronomy
COASTAL CAROLINA UNIVERSITY
P.O. Box 261954
Conway, SC 29528-6054
USA
Tel:
URL1: <http://www.coastal.edu>
(Coastal Carolina University)

Attention: Louis E. Keiner, Dept. of Chemistry and Physics

TEMPORARY FACULTY POSITION IN PHYSICS/ASTRONOMY. The Department of Chemistry and Physics seeks candidates for a temporary faculty position, beginning in summer, 2004, to teach introductory astronomy and labs, as well as other non-major physics courses. An M.S., or 18 graduate hours, in Physics, Astronomy, or a closely related area is required. We are especially interested in applicants with a demonstrated interest in innovative methods of Physics and Astronomy education. Applicants should submit a letter of interest, curriculum vita, and contact information for three references to Louis E. Keiner, Dept. of Chemistry and Physics, Coastal Carolina University, P.O. Box 261954, Conway, SC 29526-6054. Review of candidates will begin immediately and continue until the position is filled. Coastal Carolina University is a growing, state-supported institution with increasing emphasis placed on faculty-student research and public service located approximately nine miles from Myrtle Beach, SC. Coastal Carolina University is an EO/AA employer.

No. 20723

Departmental Lecturer in Astrophysics
UNIVERSITY OF OXFORD
Denys Wilkinson Building
Keble Road
U.K.

Tel: 01865-273302

FAX: 01865-273390

URL1: <http://www-astro.physics.ox.ac.uk/jobs>

(Astrophysics jobs page)

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

Email Inquiries: silk@astro.ox.ac.uk and rld@astro.ox.ac.uk

Attention: Mrs S Blackshaw

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

Applications to be sent for the attention of Mrs Sue Blackshaw, quoting reference DB04005 (email: sb@astro.ox.ac.uk)

Salary Scale (Departmental Lecturer) £18,265 - £24,121 (pay award pending)

The Physics Department proposes to appoint a Departmental Lecturer in Astrophysics for a 3 year post to commence 1 October 2004, or as soon as possible thereafter.

Applications from candidates from all areas of astrophysics are invited, preference may be given to theoretical astrophysics and cosmology (see further information on our research programme at <http://www-astro.physics.ox.ac.uk/research/>). Questions can be addressed to Professor J Silk (silk@astro.ox.ac.uk) or to Professor R L Davies (rld@astro.ox.ac.uk).

Applications should include a description of research and teaching experience, a statement of future research interests, a list of major publications, and a curriculum vitae, and be sent to the above address, quoting job reference DB04005. Three referees (not more than two from the same institution) should be asked to consider the selection criteria in the further particulars which can be found at <http://www-astro.physics.ox.ac.uk/jobs.html> , and send a letter of reference (or fax, or email) directly to the above address to arrive by the closing date of 15 May 2004.

No. 20724

Postdoctoral Research Fellowship - Adaptive Optics and / or Wide Field Astronomy

ISAAC NEWTON GROUP OF TELESCOPES

Apartado de correos 321

38700 Santa Cruz de la Palma

Spain

Tel: 00 34 922 425415

FAX: 00 34 922 425401

URL1: <http://www.ing.iac.es>

(For information about ING)

URL2: <http://www.ing.iac.es/About-ING/Vacancies/vacancies1.html>

(For an application form)

URL3: <http://www.ing.iac.es/About-ING/Vacancies/vacancies1.html>

(For more information on the post)

Email Submission Address: lal@ing.iac.es

Email Inquiries: djl@ing.iac.es

Attention: Lucy Lawler, Head of Personnel

The Isaac Newton Group of Telescopes invites applications for a Postdoctoral Research Fellowship position in the areas of Adaptive Optics and / or Wide Field Astronomy. The appointment is based in La Palma, Canary Islands and is tenable for up to three years.

The successful candidate will spend up to 50% of their time on operational activities, primarily related to the support of the Adaptive Optics programme and Wide Field Astronomy. The remaining time will be available for research.

Applicants should hold, or be about to obtain a Ph.D. in astronomy or another relevant discipline and have competed successfully for observing time on major astronomical facilities. A strong interest in the development and exploitation of the instrumentation suite at the ING telescopes is essential, as is a full valid driving licence.

The salary that applies to this post is 35,510 euros per annum increasing to 37,380 euros per annum after one year's service, subject to satisfactory performance. In addition, a relocation package will be made available where appropriate.

For further details on ING see: <http://www.ing.iac.es> . For further information on the post and to

download an application form see: <http://www.ing.iac.es/About-ING/Vacancies/vacancies1.html> .

Applicants should send a completed application form, CV, publication list, statement of proposed research programmes and three letters of recommendation to:

Lucy Lawler, Head of Personnel, Isaac Newton Group of Telescopes, Sea Level Office, Apartado de correos 321, 38700 S/C de la Palma, Spain or by email to lal@ing.iac.es .

No. 20725

Postdoctoral Position in Galaxy Formation and Evolution

KAPTEYN ASTRONOMICAL INSTITUTE

P.O. Box 800

The Netherlands

Tel: +31-(0)50-3634045

FAX: +31-(0)50-3636100

URL1: <http://www.astro.rug.nl>

(*Kapteyn Institute*)

Email Submission Address: ahelmi@astro.rug.nl

Email Inquiries: ahelmi@astro.rug.nl

Attention: Amina Helmi, Dr.

Applications are invited for a postdoctoral position to work on theoretical aspects of galaxy formation and dynamics at the Kapteyn Institute, University of Groningen in The Netherlands. The successful applicant will collaborate with a research group led by Amina Helmi on projects aimed at understanding the evolution of galaxies like the Milky Way in a cosmological context. The appointee will also be encouraged to develop his or her own research program, as well as carry out projects in related research areas with other staff members of the Kapteyn Institute (see <http://www.astro.rug.nl>).

The position is aimed a researcher with a record of excellence in (extra)galactic astronomy and an expertise in numerical simulations or semi-analytic techniques. The University of Groningen hosts a High-Performance Computing Center providing an excellent environment for computationally-intensive studies and which in one year's time will have the second fastest supercomputer in the world.

The position is for three years, with a flexible starting date in the period September 2004 to March 2005. Applicants should send a CV, publication list, a brief statement of research interests, and arrange for three letters of reference to be sent to the above address. Complete applications received by May 15, 2004 will be given full consideration. The search process will continue until the position is filled. For additional information please contact Amina Helmi at +31 50 3634045 or ahelmi@astro.rug.nl .

No. 20726

Deputy Gemini Scientist/VO Astronomer

THE UNIVERSITY OF NEW SOUTH WALES

The University of New South Wales

Sydney, New South Wales 2052

Australia

Tel: +61-2-9385-4578

FAX: +61-2-9385-6060

URL1: <http://www.phys.unsw.edu.au/astro>

URL2: <http://www.hr.unsw.edu.au/employment.htm>

Email Submission Address: w.couch@unsw.edu.au

Email Inquiries: w.couch@unsw.edu.au

Attention: Warrick Couch, Professor

Applications are invited for the position of Gemini Deputy Scientist/Virtual Observatory (VO) Astronomer in the Department of Astrophysics within the School of Physics at the University of New South Wales in Sydney. The appointee will provide support to the Australian Gemini Scientist (Prof. W. Couch), in particular assisting Gemini users in the Sydney area and developing pipeline software for a Gemini instrument. The appointee will also spend 25% of his/her time working for the ROTSE-III experiment, integrating data being collected at Siding Spring Observatory into the VO environment. Applicants must have demonstrated skills in astronomical software development and support; a PhD in optical/near-IR observational astronomy is also highly desirable.

The Department of Astrophysics at UNSW, which currently hosts the Australian Gemini Office, is one of Australia's leading research groups, with 6 academics, 11 postdoctoral fellows, and 15 graduate students. Its research areas include cosmology, galaxy formation and evolution, large-scale structure, star formation and the inter-stellar medium, and Antarctic astronomy.

Salary: A\$53,042 - A\$57,445 p.a. (plus up to 17% employer superannuation plus leave loading). The position is for a fixed term of 2 years, with 25% of time available for personal research, subject to the appointee being suitably qualified. For further information, contact: Prof. Warrick Couch, Tel: +61-2-9385-4578, email: w.couch@unsw.edu.au.

Closing date: 3 May 2004

No. 20727

Postdoctoral Research Position in Ground-based Gamma-ray Astronomy

BARNARD COLLEGE, COLUMBIA UNIVERSITY

Dept. of Physics & Astronomy

3009 Broadway

New York, NY 10027

USA

Tel: (212) 854-5101

FAX: (212) 854-8121

Email Submission Address: muk@astro.columbia.edu

Email Inquiries: muk@astro.columbia.edu

Attention: Reshmi Mukherjee, Prof.

We invite applications for a postdoctoral research scientist to work in ground-based gamma-ray astronomy at Barnard College, Columbia University. We are members of the STACEE collaboration, which is operating a detector at Sandia National Labs in Albuquerque, NM. The detector has recently been completed, and we are engaged in a multi-year observing campaign. We also plan to participate in the forefront ground-based experiment, VERITAS. In addition, we are involved in the analysis of archival gamma-ray data from EGRET and expect to be involved in GLAST. Barnard College is a four year liberal arts college affiliated with Columbia University. The candidate will be a member of the Columbia astrophysics laboratory and will have access to the facilities at Nevis Labs. The successful

candidate will work at Barnard College, travel to Albuquerque to work on STACEE, have the opportunity to work on the analysis of data from STACEE and on simulation studies for VERITAS. We encourage candidates with experimental backgrounds in astronomy/astrophysics or particle/nuclear physics to apply. A Ph.D., or equivalent degree, in physics or astronomy is required. Applicants should send a cover letter, CV and a statement of research interests, and arrange for three letters of recommendation to be sent to the above address. The position is available immediately. Applications deadline is May 1, 2004. The position is initially for 2 years with an opportunity for extension, contingent upon performance. Barnard College is an Equal Opportunity Employer and encourages applications from women and individuals from underrepresented groups.

No. 20728

Assistant professor

UNIVERSIDAD DE CONCEPCION

Astronomy Group, Departamento de Fisica

Casilla 160-C

Chile

Tel: 56-41-203103

FAX: 56-41-224520

URL1: <http://cluster.cfm.udec.cl>

Email Submission Address: wgieren@coma.cfm.udec.cl

Email Inquiries: wgieren@coma.cfm.udec.cl

Attention: Wolfgang Gieren, Dr.

We are advertising a position in astronomy at the assistant professor level at the Universidad de Concepcion, Chile which is open immediately. The position will be initially for a period of 2 years, but after this initial period we anticipate that a permanent position may become available for which the successful candidate would be a preferred applicant. The successful candidate should have a strong commitment to scientific research, and to the teaching of astronomy courses at both the undergraduate and the graduate level. An occasional contribution to the teaching of physics courses at an undergraduate level may be expected. A command of the Spanish language will be a great advantage and will be expected after a reasonable initial period of about one year. Salary will be the equivalent in national currency of US \$30,000 per year. Relocation and research expenses are available.

The Astronomy Group at the Universidad de Concepcion has currently four faculty and four postdoctoral fellows, with strong ongoing research programs in the areas of the extragalactic distance scale, galactic and extragalactic star clusters, stellar populations and variable stars in nearby galaxies, and stellar evolution. The successful candidate will have full access to the 10 percent of Chilean observing time at all telescopes operating in Chile, including the VLT, Gemini South, and the Magellan telescopes. We encourage people working in all areas of astronomy, especially radioastronomy, to apply. Concepcion is the second largest city in Chile and lies on the coast 400km south of Santiago, in the lovely south of Chile near many national parks. The Universidad de Concepcion is the largest Chilean university outside of Santiago. The astronomy group offers excellent computational infrastructure, as well as ample office and laboratory space in our new astronomy annex. Undergraduate and doctoral programs in astronomy have started recently at our university.

To apply for the position, please submit a vita, a list of publications, names and email addresses of three referees who know you and your work, and a description of the research you intend to carry out over the next several years via email to the address given above. Complete applications should be received by May 15, 2004.

No. 20729

**W.M. Keck Fellowship
THE JOHNS HOPKINS UNIVERSITY
The Johns Hopkins University
Bloomberg Building
Baltimore, MD 21218
USA**

Tel: 410-516-8649

FAX: 410-516-5096

Email Submission Address: kathy@pha.jhu.edu

Email Inquiries: szalay@jhu.edu

Attention: Mrs. Kathy Ziolkowski, Administrative Secretary

Applications are invited for three fellowships, endowed by the W.M. Keck Foundation in data-intensive research in various areas of modern astrophysics and turbulence. The incumbent will be a member of the Johns Hopkins University Center for Astrophysical Sciences.

The appointment will be for two years, with extension to a third year likely. We envisage an initial appointment on or after July 1, 2004. In addition to salary, which will be very competitive, the fellowship also carries funds for research support. The topics of research pursued by the Keck Fellows should address innovative approaches to fundamental scientific problems using data intensive analysis techniques. Preference will be given to those applicants working in fields overlapping the interests of Professors Alex Szalay, Rosemary Wyse, Ethan Vishniac and Charles Meneveau. A curriculum vitae, a statement describing past, present and intended future research, and three (3) letters of recommendation should be sent by May 15, 2004, to

Mrs. Kathy Ziolkowski, Administrative Secretary, Department of Physics and Astronomy, The Johns Hopkins University, Bloomberg Building, Homewood Campus, Baltimore, MD 21218

General enquiries about the Fellowship may be sent to Professor A. Szalay (Committee Chair) at szalay@jhu.edu.

No. 20730

**Computational Plasma Physics, Scientist, Plasma Modeler
INSTITUTE FOR SCIENTIFIC RESEARCH, INC. (ISR)
320 Adams Street
Suite 103
Fairmont, West Virginia 26554
USA**

Tel: 304-368-9300

FAX: 304-368-9314

URL1: <http://www.isr.us>

(Home Page)

URL2: <http://www.isr.us/Projects.asp?s=4>

(Summary of Research Projects)

URL3: <http://www.isr.us/CareersAtISR.asp?s=5>

(Listing of Research Positions at ISR)

Email Submission Address: jogden@isr.us

Email Inquiries: jogden@isr.us

Attention: Jeannine Ogden, Senior Recruiter

The Institute for Scientific Research (ISR) invites applications from computational scientists with a PhD in physics, mathematics, or an engineering discipline, and experience in the numerical simulation of plasmas to perform modeling and simulation to support the development of a prototype pulsed inductive thruster for space propulsion. Issues to be addressed include inductive electric field ionization of a gas, coupling of the resulting plasma to the power input circuit, acceleration of the bulk plasma, radiative loss, and instabilities. Additional projects may include modeling and simulation in space plasma physics (solar, interplanetary, magnetospheric, ionospheric), aerobraking in planetary atmospheres, microfluidics, and chaotic systems/nonlinear dynamics. Experience with the numerical analysis of MHD equations, Fortran, C, Windows, Unix, IDL and parallel computing with MPI is required. Postdoctoral experience and familiarity with particle in cell techniques are highly desired.

No. 20731

Associate Specialist, Infrared Astronomy
UNIVERSITY OF CALIFORNIA, BERKELEY
University of California, Berkeley
601 Campbell Hall
Berkeley, CA 94720-3411
USA
Tel: 510-642-3379
FAX: 510-642-3411
Email Inquiries: hollenba@shocks.berkeley.edu

Attention: David Hollenbach

We invite applications for an Associate Specialist position, July 1, 2004 to June 30, 2005 with possible extension. Salary \$45,048 -\$54,240. This position is to construct theoretical models of the chemistry, thermal balance, radiative transfer and disk vertical structure for circumstellar disks surrounding stars older than 3 million years. In addition, the specialist will analyze data from the Infrared Spectrograph on board the Spitzer Space Telescope and compare high resolution data with these models. This work will be under the direct supervision of Dr. David Hollenbach, and the overall supervision of Dr. Christopher McKee. Minimum qualifications required: a PhD in astronomy, astrophysics, or physics (but with an astronomy topic) is required. Several years of postdoctoral experience, preferably in the area discussed above, are required. Experience in astrochemistry, radiative transfer, and constructing numerical models is very important.

Apply to Dr. David Hollenbach, Astronomy Department, University of California, 601 Campbell Hall, Berkeley, CA 94720-3411. Applications should consist of a curriculum vitae, a list of publications, and statement of research interests and experience. The applicant should include the names of three references. Applications must arrive by 15 May 2004. UC is an EO/AAE.

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aas@aaas.org