



February 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

Payment Changes

The *Job Register* no longer accepts purchase orders for payment of advertisement fees. This policy change is necessary to facilitate a change from the current Job Register submission and billing system to an online database-driven system. This change will make the submission, billing, proofing and publishing processes simpler from both an administrative perspective and for our advertisers. Should your organization have any special problems with this policy change, please contact Dr. Kevin B. Marvel, Deputy Executive Officer (marvel@aas.org). Invoicing will still be available to those institutions where credit card use is not allowed. Beginning with the May 1 Job Register, each job posting will cost \$114 and credit card payments will carry a discount of \$5.00. Your advertisement will not be published until payment is received by the AAS.

Job Register Change

The AAS Job Register is undergoing a significant upgrade, which we hope will be almost transparent to job seekers and advertisers, but will make the publication of the job register much easier for the AAS.

In the past, job ads were submitted online along with payment information, which was then processed by AAS staff. The new Job Register, which will become active in its initial form as of May 1, 2003, will be based on a Database system. Job ads will be submitted and stored in this database, which will greatly ease the editorial process and make ads more accessible to advertisers. Payments, either by Credit Card or Invoice, will be handled electronically. The Job Register itself will be published dynamically using Cold Fusion tools, greatly reducing the staff effort required to bring the Register to our readership.

Although this transition will appear almost seamless (we hope!), a great deal of staff effort has gone into the design, development and implementation of the new system. Happily, much of the design effort can be carried over to other areas of AAS services, such as the Small Research Grant and International Travel Grant programs.

We hope that this upgrade of our already extant publishing system will be appreciated by our readership, although the success of the transition will be judged on how little the change will be felt.

Kevin B. Marvel
Deputy Executive Officer

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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.

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

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

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

The AAS Federal Identification number is 21-0735173.

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

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

Announcement Requirements

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

Jobs will not be published without the following:

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

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

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

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

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

Submission

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

Frequency and Circulation

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

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

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

Member Notification

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

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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. 20267

Tenure-Track position in extragalactic astrophysics or cosmology

MAX-PLANCK-INSTITUT FOR ASTROPHYSICS

Karl-Schwarzschild-Strasse 1

Garching, b. Muenchen 85741

Germany

Tel: ++49/89/300002201

FAX: ++49/89/300002235

URL1: <http://www.mpa-garching.mpg.de>

Email Submission Address: car@mpa-garching.mpg.de

Email Inquiries: car@mpa-garching.mpg.de

Attention: The Appointments Committee

TENURE--TRACK position in extragalactic astrophysics or cosmology at the Max-Planck-Institut for Astrophysics

The Max Planck Institute for Astrophysics (MPA) seeks candidates for a staff position in extragalactic astrophysics or cosmology. The MPA is an independent institute within the Max Planck Society and carries out a broad programme of theory and data analysis covering much of astrophysics. It has a particularly strong tradition in numerical astrophysics. Areas of concentration in extragalactic astrophysics include: galaxy structure; galactic dynamics; galaxy formation and evolution; galaxy clusters; large-scale structure; gravitational lensing; the intergalactic medium; microwave background studies; AGN formation and evolution; physical cosmology. These are supported by active participation in ESA's Planck mission, in the Sloan Digital Sky Survey, in the ESO Distant Cluster Survey and in a number of European research networks. Further information about MPA and its research programmes

can be found at <http://www.mpa-garching.mpg.de> Long-term staff at MPA are expected to carry out independent research programmes which complement and interact with those of other institute scientists. Typically they work with a number of the institute's postdocs and graduate students. Collaboration with other institute staff in all areas is strongly encouraged. The present post will be filled at tenure-track or, for an exceptional candidate, at tenured level. Applicants should provide a CV, a publication list, and a one-page research plan. They should also ask 3 referees to send letters. The deadline is 15 February 2004, but applications will be accepted until the post is filled. Please send applications to: The Appointments Committee, Max--Planck--Institut fuer Astrophysik Karl--Schwarzschild--Str. 1, 85748 Garching bei Muenchen. The MPA encourages applications from women, minorities and disabled persons.

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. 20561

Postdoctoral Research Associate in Computational Astrophysics

UNIVERSITY OF TENNESSEE/OAK RIDGE NATIONAL LABORATORY

Bldg. 6025, MS6354

P.O. Box 2008

Oak Ridge, TN 37831-6354

U.S.

Tel: 865-574-6113

FAX: 865-576-8746

URL1: <http://www.phy.ornl.gov/tsi/>

Email Submission Address: mezzacappaa@ornl.gov

Email Inquiries: mezzacappaa@ornl.gov

Attention: Anthony Mezzacappa, Group Leader, Theoretical Astrophysics

As part of the TeraScale Supernova Initiative (TSI) - a national, multi-institution, multi-disciplinary computing initiative to study core collapse supernovae - we invite applications for a postdoctoral position in computational astrophysics. TSI is funded under the Department of Energy's Scientific Discovery through Advanced Computing (SciDAC) Program. We especially encourage applications from individuals with expertise in computational multidimensional radiation transport, hydrodynamics, or magnetohydrodynamics.

The Physics Division of the Oak Ridge National Laboratory and the Department of Physics and Astronomy at the University of Tennessee have active research programs in computational, theoretical, and experimental astrophysics focused on the study of supernovae, novae, and X-ray bursters. Both ORNL and UTK offer rich environments for multidisciplinary research, and ORNL houses significant computing resources in its Center for Computational Sciences.

Applicants should send a curriculum vitae, with a publication list, and a statement of research experience and interests, and have three letters of recommendation sent to the address above. Electronic applications are encouraged.

Applications will be considered as they are received.

The University of Tennessee is an AA/EO employer.

No. 20546

**X-Ray Specialist at NASA Goddard Space Flight Center
NASA GODDARD SPACE FLIGHT CENTER**

Tel:

Email Submission Address: <http://www.nasajobs.nasa.gov>

Email Inquiries: Nelson.S.Rodriguez@nasa.gov

Attention: <http://www.nasajobs.nasa.gov>

Job Announcement: X-Ray Specialist at NASA Goddard Space Flight Center

As an Aerospace Technologist and Astrophysicist the incumbent conducts pioneering design and development work of outstanding scope, difficulty, and complexity in unexplored or previously unpromising scientific areas using X-ray astronomical techniques. Serves as an internationally recognized expert, technical authority, and technical advisor/consultant to management, other government agencies, and the industry in a physical science specialty area. Directs and/or manages the development and design of new, unusually complex technology, equipment, or systems that impact national or international programs and result in major advancement in the state-of-the-art of broad technologies in areas such as space science. Is broadly recognized as a top technical expert and consultant in a physical science specialty field.

Specific duties include development of mirror systems for future X-ray missions. These missions include major programs like Constellation-X, and smaller missions in the SMEX and MIDEX classes. The incumbent is expected to develop mirror systems to a sufficient TRL level for incorporation into mission proposals. The incumbent is expected to incorporate developed mirror systems into instrument and mission concept for proposal and eventual implementation.

Selective Placement Factor: Demonstrated research achievements, expertise in X-ray astronomy, and a substantive publication record in X-ray astronomy and leadership skills in directing and managing programmatic activities.

Apply on line at: <http://www.nasajobs.nasa.gov> announcement # GS04B0030 by February 28, 2004. For additional information contact Nelson at: Nelson.S.Rodriguez@nasa.gov or call (301) 286-2883.

No. 20580

**Scientist - Extrasolar Planetary Research
NASA'S GODDARD SPACE FLIGHT CENTER**

Tel:

Email Inquiries: Stephen.P.Maran@nasa.gov

Attention: *William Oegerle*

The Laboratory for Astronomy and Solar Physics (LASP) at NASA's Goddard Space Flight Center plans to hire one or more civil servant scientists in the field of extrasolar planetary research. GSFC is now partnering with the Jet Propulsion Laboratory to investigate technologies and concepts for the Terrestrial Planet Finder (TPF) space observatory to be launched in the next decade. Several Discovery-class

extrasolar planet missions are under development by scientists in LASP, including the Fourier Kelvin Stellar Interferometer (FKSI; Danchi, PI) and the Extrasolar Planet Imaging Coronagraph (EPIC; Clampin, PI). In addition, several staff members are working on innovative optical designs for high-contrast imaging. We are seeking applicants at the junior or senior level, with relevant experience in theory, data analysis, optics and/or space instrumentation. The successful applicant(s) should be engaged in a vigorous program of astronomical research, and will be expected to lead or make significant contributions to future space missions or instruments to study extrasolar planets. LASP has an exciting research environment, with significant roles in HST, WMAP, JWST, TPF and in future Einstein Probe missions. Negotiable start-up packages are available. For application instructions, please see website <http://www.nasajobs.nasa.gov/> and "search jobs" for vacancy announcement number GS04B0061 beginning January 1, 2004. Address technical inquiries to Dr. Stephen Maran, Search Chair (Stephen.P.Maran@nasa.gov). The application deadline is March 31, 2004. NASA is an AA/EEO employer.

No. 20563

Postdoctoral Positions in Theoretical Astrophysics

MACQUARIE UNIVERSITY

Sydney, NSW 2109

Australia

Tel: +61 2 9850 9701

FAX: +61 2 9850 9725

URL1: <http://www.physics.mq.edu.au/~wardle>

(Further information)

URL2: <http://www.astronomy.mq.edu.au>

(Astronomy at Macquarie)

URL3: <http://www.ics.mq.edu.au/jobs>

(Application package and information)

Email Inquiries: wardle@physics.mq.edu.au

Attention: Recruitment Manager, Personnel Office

Applications are invited for two Research Fellow positions funded by the Australian Research Council to conduct research with Dr Mark Wardle on (i) the role of magnetic field diffusion in interstellar clouds, shock waves, gravitational collapse and protoplanetary discs; and (ii) theoretical studies of chemical signatures of massive star formation. The latter is in collaboration with an observational program directed by Michael Burton at the University of New South Wales.

The positions are available on a full-time (fixed term) basis for a period of 2 years with the possibility of further appointment subject to funding and performance. Probationary conditions may apply.

Applicants should indicate the level (A or B) at which they are applying or whether they wish to be considered for both levels. Essential Criteria at Level A: PhD (or submitted) in a relevant area; research experience in theory and/or modelling in a relevant area.

Desirable Criteria: research experience in one or more of astrophysical magnetohydrodynamics, star formation and interstellar chemistry.

Additional Essential Criteria at Level B: At least three years postdoctoral research experience or equivalent in a relevant area; ability to carry out independent research; established publication record in a relevant area.

Salary Range: Level A (Associate Lecturer) - up to A\$65,084 pa including base salary A\$40,662 to A\$54,997 pa, up to 17% employer's superannuation and annual leave loading. Appointees with a PhD will be appointed to a minimum of Point 6 on the salary scale, currently A\$51,271 pa. Level B (Lecturer) - A\$68,480 to A\$81,202 pa including base salary A\$57,886 to A\$68,616 pa, 17% employer's superannuation and annual leave loading.

Enquiries should be directed to Dr Mark Wardle (+61 2 9850 8909 or wardle@physics.mq.edu.au).

The selection criteria must be addressed in the application. Applications, quoting reference number 19680+ and including full curriculum vitae, visa status, and the names and addresses (including postal and/or e-mail address) of three referees should be forwarded to the Recruitment Manager by 1 March 2004. Applications will not be acknowledged unless specifically requested.

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. 20571

Faculty Position in Astronomical Instrumentation

UNIVERSITY OF WISCONSIN-MADISON

5534 Sterling Hall

475 N. Charter Street

Madison, WI 53706-1582

USA

Tel: 608-262-3071

FAX: 608-263-6386
URL1: <http://www.astro.wisc.edu>
(Department of Astronomy)
Email Inquiries: facultysearch@astro.wisc.edu

Attention: Instrumentation Search Committee

The Department of Astronomy at the University of Wisconsin-Madison invites applications for a tenure-track Assistant or tenured Associate/Full Professor appointment in the area of Astronomical Instrumentation. Appointment to begin August, 2004. Ph.D. required prior to start of appointment. Duties include teaching, research, and professional service. Applicants for a tenured position must be able to show excellence in all three areas.

The Space Astronomy Laboratory (SAL) at the UW-Madison provides an existing infrastructure for hardware and software engineering, production and testing. SAL is capable of developing orbital and suborbital payloads, and ground-based instrumentation. The UW campus also offers engineering support through other centers. Applications are particularly encouraged from those interested in building innovative instruments for the 3.5-meter WIYN and 10.5-meter SALT telescopes, in which UW-Madison is a partner.

Applications should include a bibliography, curriculum vitae, a brief summary of planned research, and the names of at least three individuals who can provide letters of reference. Application materials should be sent to Instrumentation Search Committee, Department of Astronomy, University of Wisconsin-Madison, 5534 Sterling Hall, 475 N. Charter Street, Madison, WI 53706-1582. Deadline for receiving applications is February 10, 2004.

The University of Wisconsin-Madison is an affirmative action/equal opportunity employer. Women and minorities are encouraged to apply. Unless confidentiality is requested in writing, information regarding applicants must be released. Finalists cannot be guaranteed confidentiality.

A

No. 20564
Research Associate in Massive Star Formation
UNIVERSITY OF NEW SOUTH WALES
School of Physics
University of New South Wales
Sydney, NSW 2052
Australia
Tel: +61-2-9385-5618
FAX: +61-2-9385-6060
URL1: <http://www.phys.unsw.edu.au/astro>
(Department of Astrophysics at UNSW)
Email Submission Address: M.Burton@unsw.edu.au
Email Inquiries: M.Burton@unsw.edu.au

Attention: Michael Burton, Associate Professor

Applications are invited for a Research Associate position funded by the Australian Research Council, to work with A/Prof Michael Burton on the chemical signatures of massive star formation. Experience is needed in one or more of the following research areas: (i) observational mm and/or IR astronomy, (ii) star formation and (iii) the excitation of molecular clouds. Experience in modelling IR line emission and/or interstellar chemistry would be an asset. The work will involve an extensive program of observational mm-wave astronomy, as well as close collaboration with a theoretical program being undertaken at Macquarie University.

The position will initially be for one year with the possibility of renewal for up to a further two years, subject to satisfactory performance. Candidates must possess a PhD and show a demonstrated ability to pursue independent research. The salary scale range is on the UNSW Academic Salary Rates (level A).

The Department of Astrophysics at UNSW is one of Australia's leading research groups with 6 faculty, 11 postdocs and 15 graduate students. We operate the 22-m Mopra mm-wave telescope over the winter observing season, the largest such telescope in the southern hemisphere, and have Australia's major group researching in the field of star formation. The group is also playing a leading role in the development of the Antarctic Plateau for astronomy, and operates two automated observatories there. UNSW is situated close to the centre of Sydney and also to some wonderful beaches.

Applications should include a CV, a bibliography, and a statement of research interests, and arrive before March 1, 2004. Please provide the names and contact details (inc. email) for three referees, who may be asked to provide letters of recommendation.

No. 20579

Summer Student Research Programme 2004

NETHERLANDS FOUNDATION FOR RESEARCH IN ASTRONOMY (ASTRON) AND JIVE

Oude Hoogeveensedijk 4

Dwingeloo, Drenthe 7991 PD

The Netherlands

Tel: +31 521 595100

FAX: +31 521 597332

URL1: <http://www.astron.nl/wsrt>

URL2: <http://www.jive.nl>

Email Submission Address: csonka@astron.nl

Email Inquiries: csonka@astron.nl

Attention: N. Csonka, Office Manager

The Netherlands Foundation for Research in Astronomy (ASTRON) and the Joint Institute for VLBI in Europe (JIVE) announce the availability of a limited number of grants for their 2004 Summer Research Programme. The Programme enables astronomy students (graduate or advanced undergraduate) to spend the summer (10 to 12 weeks) at the Dwingeloo Observatory, conducting astronomical research under the supervision of ASTRON and JIVE staff members. Possible topics of study include radio galaxies and quasars, aspects of observational cosmology, continuum and line emission/absorption from normal and starburst galaxies, faint radio sources, pulsars, molecular clouds and the interstellar medium. There are also possibilities to get involved in astronomical tests with the ITS, a prototype LOFAR station, operating from 10 - 40 MHz. The actual project the successful candidate will work on will be defined after arrangement with the local supervisor.

ASTRON operates the 2.7 km Westerbork Synthesis Radio Telescope (WSRT) used largely for

precision mapping at wavelengths from 3.6 to 92 cm. JIVE operates the European VLBI Network's 16-station MkIV VLBI Data Processor. For more information see our web sites.

The research grants will provide successful candidates with accommodation at the Observatory, a modest stipend for up to three months, and full travel reimbursement. We expect most participants to begin in early June 2004. If this is not possible please indicate why.

Completed applications AND two letters of reference should be received by 15 February 2004 (Att. Ms. Nanuschka Csonka). Please send or fax to the address given above the letters of reference AND the completed application form, which can be obtained from <http://www.astron.nl/wsrt/summer.html>

No. 20573

Postdoctoral Research Positions in Stellar Populations/Galaxy Evolution

UNIVERSITY OF BASEL

Astronomical Institute

Venusstrasse 7

Switzerland

Tel: +41 61 2055 403

FAX: +41 61 2055 455

URL1: <http://www.astro.unibas.ch/indexengl.shtml>

(Astronomical Institute)

Email Submission Address: grebel@astro.unibas.ch

Email Inquiries: grebel@astro.unibas.ch

Attention: Eva K. Grebel, Professor

The Astronomical Institute of Basel University invites applications for one, possibly two postdoctoral research positions to work with Prof. Eva K. Grebel on projects in one or several of the following areas: stellar populations, chemical abundances and evolution, Galactic structure and kinematics, or the overall evolution of nearby galaxies. A publication record in one of the above areas will be an asset. Basel participates in the RAdial Velocity Velocity Experiment (RAVE) for Galactic structure and chemical evolution, in an ESO/VLT Large Programme for the kinematics and chemical evolution of Milky Way satellites, and in an approved key project with the Space Interferometry Mission (SIM) for Galactic structure. Applicants whose research interests match well with ongoing research programs will be given preference.

The appointments will be for one year with a possible extension to three to five years based on performance and availability of funding. The starting date is around October 1, 2004 (negotiable).

Basel is an international city in the German-speaking part of Switzerland, bordering both France and Germany, and is within easy reach of most European centers. The successful applicant will have access to the ESO and ESA observatories and supercomputing facilities. Funds will be available for travel.

Applicants should send a CV, a brief description of research experience, a statement of research interests, and a bibliography, and arrange for three letters of reference to be sent to the above address by March 1, 2004.

No. 20577

Near-IR Extragalactic Astronomy

AUSTRALIAN NATIONAL UNIVERSITY

Tel:

URL1: <http://www.mso.anu.edu.au>

Email Submission Address: jobs@anu.edu.au

Email Inquiries: academic.services.rsaa@anu.edu.au

Attention: Staffing Recruitment Officer

Postdoctoral Fellow or Research Fellow in Near-IR Extragalactic Astronomy. Salary package (inclusive of superannuation): Postdoctoral Fellow \$AUD58,625 - \$AUD62,735; Research Fellow \$AUD65,896 - \$AUD77,748

The Research School of Astronomy and Astrophysics at the Australian National University invites applications for a Postdoctoral Fellow or Research Fellow to assist in the study of the near-IR properties of Nearby Galaxies. The successful applicant will work closely with Dr Simon Driver and Dr Helmut Jerjen to complete two major near-IR surveys: The near-IR extension of the Millennium Galaxy Catalog (MGC) and the Local Sphere of Influence (LSI) survey. Both surveys will provide unprecedented deep near-IR insight into the luminosity, size, shape and profile distributions of the very near ($d < 10$ Mpc) and low redshift ($z < 0.15$) galaxy population.

The surveys and their research output is in part directly intended to provide the vital zero redshift reference material for the upcoming James Webb Space Telescope mission to study the Origin and Evolution of Galaxies.

The candidate should possess a PhD in astronomy or related field and be familiar with optical/near-IR imaging, galaxy catalogs, galaxy morphology and galaxy surface photometry. A component of the MGC work will involve near-IR bulge-disk decomposition and a component of the LSI work will involve measuring direct distances to nearby galaxies using surface brightness fluctuations.

For further information on the position contact Simon Driver (spd@mso.anu.edu.au) or Helmut Jerjen (jerjen@mso.anu.edu.au).

Selection documentation MUST be obtained prior to application and can be obtained from: academic.services.rsaa@anu.edu.au . Please note that referees must supply their reports at the time of application.

Closing date for receipt of applications and referee reports: 29 February 2004. Please quote reference: RSAA2124

No. 20574

Postdoctoral position(s) in theoretical astrophysics

LAVAL UNIVERSITY

Department of Physics, Physics

Engineering, and Optics

Saint-Foy (Quebec City), Quebec G1K 7P4

Canada

Tel: 418-656-2652

FAX: 418-656-2040

URL1: http://galileo.as.utexas.edu/hugo_c.html

(Dr. Martel's web page)

Email Submission Address: hugo@astro.as.utexas.edu

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

Attention: Hugo Martel, Professor

Applications are invited for one or possibly several postdoctoral positions in theoretical astrophysics, starting September 2004. Appointments will be for three years. The goal is to develop a strong research group in theoretical and computational astrophysics at Laval, under the direction of Prof. Hugo Martel (CRC Chairholder, Theoretical and Numerical Cosmology).

We are particularly interested in candidates with expertise in either cosmology, galaxy formation, or star formation, and previous experience with high-performance numerical simulations. HOWEVER, candidates with expertise in analytical or semi-analytical modelling will be considered, and candidates with expertise in related fields (galaxy evolution, structure and dynamics, or evolution of the ISM) will also be considered. Prof. Martel's current research interests include the evolution of X-ray clusters, the reionization of the universe, and the formation of massive star clusters and its feedback on the evolution of the ISM.

Candidates should send a cover letter, resume, brief summary of past accomplishments and research goals, and 3 letters of recommendation to the above address. The resume should include a list of computer systems, programming languages, and numerical algorithms that the candidate is familiar with. Review of applications will start on Feb 15, 2004, and continue until the position(s) is(are) filled.

No. 20575

Postdoctoral Position in Stellar Astrophysics

PAUL SCHERRER INSTITUTE, SWITZERLAND

Wuerenlingen and Villigen

Switzerland

Tel: 0041 - 56 - 310 2676

FAX: 0041 - 56 - 310 2679

Email Submission Address: guedel@astro.phys.ethz.ch

Email Inquiries: guedel@astro.phys.ethz.ch

Attention: Human Resources, Ref. Code 1513

We invite applications for a new postdoctoral research position in stellar astrophysics, starting between spring-fall 2004. This position will be awarded for two years; extension is contingent on further funding. Candidates with an observational or theoretical background in star formation and/or magnetic activity/coronal physics in young stars are particularly encouraged to apply. Experience in either infrared, millimeter, or X-ray astronomical observing and/or related theory are welcome. Candidates with expertise in related fields of stellar astronomy are also invited to apply.

The successful candidate will work in a joint team of astronomers from the Paul Scherrer Institute and ETH Zurich. This team has a strong background and interest in X-ray, millimeter and radio astronomy of magnetically active and young stars, star formation, plasma physics, and solar physics. PSI has been involved in the development of space missions such as XMM-Newton, the James Webb Space Telescope (JWST), RHESSI, and Integral. We offer extensive scientific collaborations within several ongoing research projects. The candidate is expected to develop further vigorous research activities.

Office space and computing facilities will be provided by both PSI and ETH Zurich.

Please send CV, publication list, and a short description of research interests, and arrange for two letters of recommendation sent directly to us. Applications are requested by 20 February 2004 but will continue to be considered thereafter until the position is filled. For questions, please send e-mail to Dr. M. Guedel (guedel@astro.phys.ethz.ch).

No. 20588

Superintendent

MCDONALD OBSERVATORY (FT. DAVIS, TX)

The University of Texas at Austin

RLM 15.208, C1402

Austin, TX 78712

USA

Tel: 512/471-3300

FAX: 512/471-6016

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

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

Email Submission Address: [no email submission](#)

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

Attention: David L. Lambert, Director

The University of Texas McDonald Observatory seeks highly qualified and strongly motivated applicants for the position of Superintendent, McDonald Observatory. The position primarily involves oversight of operations at McDonald Observatory, located in Ft. Davis Texas. The Observatory consists of four optical telescopes (2.7-m, 2.1-m, 0.9-m and 0.76-m). The Superintendent acts as the scientific and operational liaison between the west Texas and Austin staffs. The qualified applicant will lead a staff of approximately 60 employees who operate and maintain the telescopes and associated instrumentation, physical plant facilities and visiting astronomer dormitory. In addition, the Superintendent will be expected to host visiting official and special visitors to the Observatory. The Observatory functions as a small community and the Superintendent will be responsible for establishing an environment conducive to the mission of the observatory, including maintaining resident morale and observatory relations with the surrounding towns and communities. The successful applicant will be resident at McDonald Observatory where a house will be provided.

Required qualifications include a Masters or Doctoral degree in Astronomy or related discipline and several years experience in management of a research group/organization. Research and operational experience with advanced instrumentation including telescopes is desirable, as is the ability to communicate with the public, the press, official visitors and governmental officials.

For applicant instructions, please visit: <http://www.as.utexas.edu/mcdonald/jobs/jobs.html> To assure full consideration, applications should be submitted by February 29, 2004.

No. 20491

Computational Astrophysicist

UNIVERSITY OF COLORADO AT BOULDER

914 Broadway

51 SYS

Boulder, CO 80309-0051

USA

Tel: 303-492-8911

FAX: 303-492-0330

URL1: <http://casa.colorado.edu>

(department website)

Email Submission Address: Jack.Burns@cu.edu

Email Inquiries: Jack.Burns@cu.edu

Attention: Jack O. Burns

Applications are invited for a postdoctoral research fellowship in computational cosmology at the University of Colorado, Boulder. The successful applicant will work with a research group led by Dr. Jack Burns at Colorado and work in close collaboration with Drs. Mike Norman at the University of California, San Diego and Patrick Motl at the University of Colorado. The research effort will make use of a sophisticated, hybrid Adaptive Mesh Refinement (AMR) code that couples Eulerian hydrodynamics with an N-body code in a cosmological context. The goals of the research are to develop a more complete understanding of the fundamental physics of cores in clusters of galaxies (including the effects of radiative cooling, star formation, thermal conduction and AGN feedback) and apply the simulations to current and upcoming observational efforts in the X-ray and with the Sunyaev-Zeldovich effect. While not a prerequisite, experience with national supercomputing resources, scientific programming and the use of analysis packages such as IDL are of notable benefit.

Applicants should send a curriculum vitae, a publication list, a one or two page letter outlining relevant interests and experience, and arrange to have three letters of recommendation sent directly to the above address. Applications should be received by 1 March 2004 for full consideration. Women and minorities are encouraged to apply. The University of Colorado at Boulder is committed to diversity and equality in education and employment.

No. 20501

Postdoctoral Researcher - Galaxy Evolution

SWINBURNE UNIVERSITY CENTRE FOR ASTROPHYSICS & SUPERCOMPUTING

Centre for Astrophysics & Supercomputing

Mail #31, P.O. Box 218

Hawthorn, Victoria 3122

Australia

Tel: +61-3-9214 8036

FAX: +61-3-9214 8797

URL1: <http://astronomy.swin.edu.au>

Email Submission Address: bgibson@swin.edu.au

Email Inquiries: bgibson@swin.edu.au

Attention: Brad Gibson, Professor

The Centre for Astrophysics & Supercomputing at Swinburne University invites applications for a Postdoctoral Research Fellow in Galaxy Formation & Evolution to join Brad Gibson and the Cosmology & Galaxy Formation Group (Gibson, Daisuke Kawata, Alexander Knebe, a postdoc to be appointed in late 2003, and 6-7 PhD students). The successful applicant will work closely with both Gibson and Prof Ken Freeman (ANU), conducting research in the field of theoretical galaxy formation and evolution. Demonstrable skills in the development and use of either (a) N-body, adaptive mesh refinement, or

chemodynamical codes, or (b) Galactic chemical evolution codes, are desired. Candidates with related analytical and/or semi-analytical backgrounds in simulating the formation and evolution of galaxies will receive full consideration though. Opportunities will exist to participate directly in the RAdial Velocity Experiment (RAVE) for suitably interested and qualified applicants. The successful applicant will join a vibrant, rapidly growing Australian research institute (in one of the world's great cities - Melbourne), and will have unlimited access to one of the world's most powerful supercomputers dedicated exclusively to astrophysics (in excess of 1 Tflop with 20 TBytes of disk space). Interested candidates should send a CV, brief statement describing their research interests, and relevant contact information for three referees, to Brad Gibson. EMail submissions are strongly encouraged. This three-year appointment can commence at any time prior to 1 October 2004. Applications received before 15 February 2004 will receive full consideration.

No. 20522

Astrophysicist - experimentalist/instrumentalist (preferred)

OBERLIN COLLEGE

Dept. of Physics & Astronomy

110 No. Professor St.

Oberlin, OH 44074

USA

Tel: 440-775-8333

FAX: 440-775-6379

URL1: <http://www.oberlin.edu/HR>

(Human Resources - job announcement)

URL2: <http://www.oberlin.edu/physics>

(Physics & Astronomy Dept. webpage)

URL3:

Attention: John Scofield, Chair

Oberlin College, Department of Physics and Astronomy seeks an Astrophysicist for tenure-track Assistant Professor appointment beginning Fall 2004. In addition to teaching courses in both physics and astronomy, the incumbent will establish an active research program involving students; laboratory space and start-up funds will be provided. Entire description: see HR link. Requirements: Ph.D. (in hand or by Fall 2004), strong background in both physics and astrophysics. We are particularly interested in applicants with significant instrumentation or other experimental background. Send cover letter, CV, statement of teaching philosophy, plan of research involving undergraduate students, undergraduate and graduate academic transcripts, and arrange for three letters of reference to be sent directly to: John Scofield, Chair, Department of Physics and Astronomy, Oberlin College, Oberlin, OH 44074, by 2/1/04. Late applications may be accepted until position filled. AA/EOE. Electronic submissions NOT ACCEPTED.

Oberlin College is the undergraduate origin of more Ph.D.s than any other liberal arts college. The Physics and Astronomy department, consisting of five physicists and one astrophysicist, graduates roughly 10 majors a year, with most involved in faculty research projects. This position will expand the faculty by one. Support staff includes an electronics specialist, a machinist, and a computing specialist. The department facilities have been newly renovated as part of a \$65 million science center project, completed last year. Oberlin strongly supports faculty/student research. Additional information about the department and job opening can be found on our website.

No. 20540

Astrophysicist in Cosmology/Dark Energy
NASA/GODDARD SPACE FLIGHT CENTER
Tel:
Email Inquiries: Stephen.P.Maran@nasa.gov

Attention: William Oegerle

The Space Sciences Directorate at NASA's Goddard Space Flight Center (GSFC) announces plans to expand its presence in the field of cosmology, with emphasis on dark energy research, by hiring up to 2-3 civil servant scientists. NASA and DoE recently announced plans for a Joint Dark Energy Mission (JDEM) to be launched in the next decade. Also, the Dark Universe Observatory (DUO; Griffiths PI) was recently selected for Phase A study as a Small Explorer. GSFC scientists play key roles in the DUO mission, and in carrying out mission concept studies with the Supernova Acceleration Probe team (Perlmutter, PI). GSFC is seeking applicants at the junior and senior level, with relevant experience in space instrumentation, theory or data analysis, at x-ray and optical/IR wavelengths. The successful applicant(s) should have a vigorous program of astronomical research, and will be expected to lead or make significant contributions to future space missions or instruments to study dark energy/matter, cosmology or the structure and evolution of the universe. GSFC has an exciting research environment, with major roles in HST, WMAP, RXTE, and planned missions Swift, Astro-E2, JWST, Con-X and LISA. GSFC also provides negotiable start-up packages. For a application instructions, please see website <http://www.nasajobs.nasa.gov/> and "search jobs" for vacancy announcement number GS04B0029 beginning December 1, 2003. Address technical inquiries to Dr. Stephen Maran, Search Chair (Stephen.P.Maran@nasa.gov). The application deadline is March 31, 2004. NASA is an AA/EEO employer.

No. 20545

Assistant Professor to Professor in Physics & Astrophysics in Planetary Science or Geophysics
UNIVERSITY OF TORONTO

University of Toronto at Scarborough
1265 Military Trail
Toronto, Ontario M1C 1A4
Canada

Tel: 416-287-9196

FAX: 416-287-7204

URL1: <http://www.utsc.utoronto.ca>

(University of Toronto at Scarborough)

URL2: <http://www.astro.utoronto.ca>

(Astronomy/Astrophysics at Toronto)

URL3: <http://www.physics.utoronto.ca>

(Physics at University of Toronto)

Email Submission Address: dyer@astro.utoronto.ca

Email Inquiries: janetr@utsc.utoronto.ca

Attention: Charles C. Dyer, Chair

The Department of Physical and Environmental Sciences in the University of Toronto at Scarborough seeks candidates for two tenure-stream faculty appointments in the Physics and Astrophysics group in the fields of geophysics and planetary physics/astrophysics to begin 1 July 2004. One appointment will be made at the Assistant Professor level while the second appointment will be at a more senior level.

The appointed faculty will join a physics/astrophysics group developing a new concentration in planets, both solar and extrasolar. This group will work in close collaboration with existing groups in environmental and earth science and in chemistry. We seek candidates who have outstanding research records to augment the present research strengths and who have a demonstrated capacity for excellence in teaching. Those appointed will be able to hold graduate appointments in the Graduate Department of Physics and the Graduate Department of Astronomy and Astrophysics, each having active research groups in related areas. We also encourage close ties with the Canadian Institute for Theoretical Astrophysics, hosted by the University of Toronto. The University of Toronto offers the opportunity to teach, conduct research, and live in one of the most diverse cities in the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

No. 20552

Postdoctoral Position in Computational Astrophysics/Code Validation

THE UNIVERSITY OF CHICAGO

5640 S. Ellis Ave., RI 468

Chicago, Illinois 60637

USA

Tel: (773) 834 2057

FAX: 773 834 3230

URL1: <http://http://flash.uchicago.edu>

URL2: <http://flash.uchicago.edu/compphys/>

Email Submission Address: eder@flash.uchicago.edu

Email Inquiries: eder@flash.uchicago.edu

Attention: Ms. Carrie Eder, Administrative Assistant

The DOE-funded ASCI/Alliances Center for Astrophysical Thermonuclear Flashes at the University of Chicago, the FLASH Center, invites applications for a postdoctoral research position in computational physics/code validation.

The Center's purpose is to develop and apply a general-purpose multi-physics adaptive mesh refinement code, FLASH. The primary applications of the FLASH code are modeling of astrophysical thermonuclear explosions and laboratory experiment for code validation. The Center's vigorous scientific program involves frequent interactions with theorists and experimentalists from the National Laboratories, and collaborations with leading academic centers in the US and Europe.

Research activities will include:

Construction of detailed physics models representing laboratory experiments. Critical assessment of experimental uncertainties, including initial conditions, material properties, and experimental diagnostics. Identification of essential physical processes, implementation and verification of corresponding computational modules within the framework of adaptive mesh refinement methods, and comparison of simulation results with experimental data using physics-motivated metrics. Providing feedback to experimentalist and actively aiding design of the next generation experiments, especially high-energy-density experiments on the National Ignition Facility (NIF). Close interaction with other members of the Center, sharing and exchanging scientific ideas with the wide scientific community

through participation in meetings, workshops, and conferences. Publication of results in conference materials and scientific journals.

The successful candidate will develop mathematical and computational models required for simulations of flows with strong shocks typical of explosive astrophysical phenomena (core collapse and thermonuclear supernovae, supernova remnants). Studies will focus on classical shock-tube experiments and high-energy-density plasma laser experiments in collaboration with experimentalists from the National Laboratories and academia.

A PhD in one of the computational sciences is required. Experience in computational fluid dynamics and high performance parallel computing is essential. Knowledge of problems of code verification and validation and interest in theoretical astrophysics is highly desirable. Good communication skills and the ability to work in a team environment are also needed.

The position is for a period of two years with the possibility of renewal. The expected date of the appointment is April 1, 2004.

To apply, please submit to the above address a curriculum vitae, a list of publications, a brief description of research interests, and the names and contact information for three references. Please refer to "Position in Code Validation" when applying. Applications received prior to February 1, 2004 will receive first consideration. Applications will be accepted until the position is filled.

AA/EEO.

No. 20551

Postdoctoral Position in Computational Astrophysics/Interface Modeling

THE UNIVERSITY OF CHICAGO

5640 S. Ellis Ave., RI 468

Chicago, IL 60637

United States

Tel: Tel: 773 834 2057

FAX: FAX: 773 834 3230

URL1: <http://flash.uchicago.edu>

URL2: <http://flash.uchicago.edu/compphys/>

Email Submission Address: eder@flash.uchicago.edu

Email Inquiries: eder@flash.uchicago.edu

Attention: Ms. Carrie Eder, Administrative Assistant

The DOE-funded ASCI/Alliances Center for Astrophysical Thermonuclear Flashes at the University of Chicago, the FLASH Center, invites applications for a postdoctoral research position in computational physics/interface modeling.

The Center's purpose is to develop and apply a general-purpose multi-physics adaptive mesh refinement code, FLASH. The primary applications of the FLASH code are modeling of astrophysical thermonuclear explosions and laboratory experiments for code validation. The Center's vigorous scientific program involves frequent interactions with theorists and experimentalists from the National Laboratories, and collaborations with leading academic centers in the US and Europe.

Research activities will include:

Design, implementation, and rigorous verification of appropriate numerical algorithms for studying evolution of thin interfaces (e.g. volume-of-fluid algorithms, level set methods) within the framework of adaptive mesh refinement methods. Validation of numerical models against experiments involving complex hydrodynamic flows and combustion processes. Close interaction with other members of the Center, sharing and exchanging scientific ideas with wide scientific community through participation in meetings, workshops, and conferences. Publication of results in conference materials and scientific journals.

The successful candidate will develop physics models and numerical algorithms needed for simulations of multidimensional reactive flows characteristic for astrophysical phenomena (Type Ia supernovae, classical novae, x-ray bursts).

A PhD in one of the computational sciences is required. Strong background in computational physics and computational fluid dynamics, and experience with high performance parallel computing is essential. Interest in theoretical astrophysics and validation of scientific codes is highly desirable. Good communication skills and the ability to work in a team environment are also needed.

The position is for a period of two years with the possibility of renewal. The expected start date of the appointment is April 1, 2004.

To apply, please submit to the above address a curriculum vitae, a list of publications, a brief description of research interests, and the names and contact information for three references. Please refer to "Position in Interface Modeling" when applying. Applications received prior to February 1, 2004 will receive first consideration. Applications will be accepted until the position is filled.

AA/EEO

No. 20550

Postdoctoral Position in High-Resolution Spectroscopic Analysis at MSU

MICHIGAN STATE UNIVERSITY

3268 Biomedical Physical Sciences Building

Michigan State University

E. Lansing, MI 48824-2320

USA

Tel: 517-355-9200 ext 2416

URL1: <http://www.nsl.msui.edu/ourlab/employment/index.php>

Email Submission Address: beers@pa.msui.edu

Email Inquiries: beers@pa.msui.edu

Attention: Timothy Beers, Professor

Applications are now being accepted for a three-year postdoctoral position for discovery and analysis of metal-deficient stars in the Galaxy. This position is funded as part of the "Joint Institute for Nuclear Astrophysics" (JINA), a newly-established NSF Physics Frontier Center involving the University of Notre Dame, Michigan State University, and the University of Chicago. More information on JINA may be obtained at: <http://www.jinaweb.org/>

The successful candidate will work with JINA members at MSU to measure the abundances of light and heavy elements produced in the first generations of stars in the Milky Way, in particular, stars that are highly enhanced in neutron-capture elements arising from the s- and r- processes, based on analysis of high-resolution spectroscopic data presently being obtained with the world's largest telescopes. This information will be used to improve our understanding of the site(s) of neutron-capture element production, and the formation and evolution of the first elements in the Universe. The successful applicant will have access to the SOAR 4.1m telescope in Chile, in which MSU is a partner, as well as to the facilities of the National Superconducting Cyclotron Laboratory at MSU, where fundamental studies of nuclear properties beyond the valley of stability are being conducted.

Interested individuals should mail a CV and arrange for three letters of reference to be sent directly to Professor Beers.

Applications received will be reviewed starting on Feb. 15, 2004

Michigan State University is an Affirmative Action/Equal Opportunity employer. Women and minorities are especially encouraged to apply.

No. 20576

Research Astronomy

AUSTRALIAN NATIONAL UNIVERSITY

Tel:

URL1: <http://www.mso.anu.edu.au>

Email Submission Address: jobs@anu.edu.au

Email Inquiries: academic.services.rsaa@anu.edu.au

Attention: Staffing Recruitment Officer

Research Astronomer/Astrophysicist. Fellow or Senior Fellow level. Salary package (inclusive of superannuation): Fellow \$AUD80,116 - \$AUD91,971; Senior Fellow \$AUD95,918 - \$AUD105,401. The Research School of Astronomy and Astrophysics of the Australian National University is seeking to appoint a distinguished early to mid-career Research Astronomer or Astrophysicist to a continuing position. We expect the successful appointee to play a leading role in RSAA's vigorous research program through full time, self-directed research in astronomy and astrophysics and the training of graduate students. The appointee will also play an active role in the life of the School and will undertake duties such as chairing and serving on School committees, representing the School on ANU and national committees and leading or participating in proposals for research and/or infrastructure funding.

We favour an appointment in one of the current observational or theoretical areas of research of RSAA, but will give serious consideration to outstanding applicants in any field of astronomy. The appointee will exhibit a track record of independent research, as evidenced, for example, by the ability to initiate and resource their own research programs, and a substantial well-cited publications record.

RSAA operates the Mount Stromlo and Siding Spring Observatories and has a highly successful astronomical instrumentation program. RSAA staff has access to Australia's radio and optical astronomical facilities/partnerships, world-class ANU supercomputing facilities, and may apply for research and infrastructure funding via a peer-reviewed process operated by the Australian Research Council.

For further information on the position contact Professor Penny Sackett: director.RSAA@anu.edu.au .

Selection documentation MUST be obtained prior to application and can be obtained from: academic.services.rsaa@anu.edu.au . Please note that referees must supply their reports at the time of application

Closing date for receipt of applications and referee reports: 1 March 2004. Please quote reference: RSAA2123.

New Jobs This Month

No. 20596

Head of Observatory Science Software and Data Management

NATIONAL RADIO ASTRONOMY OBSERVATORY

520 Edgemont Road

Charlottesville, VA 22903

USA

Tel: 434.296.0234

FAX: 434.296.0202

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

(Home page)

Email Submission Address: resumes@nrao.edu

Attention: Robert D'Angio, Human Resources Manager

The NRAO is currently reorganizing its data flow management in an effort to develop and deploy more automated processing of astronomical data from its telescopes. The instruments currently include the Very Large Array (VLA), Very Long Baseline Array (VLBA) and the Green Bank Telescope (GBT). A more automated process will provide increased support to the users of the NRAO facilities. The reorganization should be sufficiently accomplished to handle the early science phase of both the Expanded VLA and ALMA projects beginning in 2007.

The successful applicant is expected to provide Observatory-wide leadership for the general area of Science Software and Data Management, and will report to the Observatory Director. The candidate is expected to oversee and coordinate the planning, organization and implementation of this process and will play a key role in the production of proposals to funding agencies for the software development needed.

The candidate is expected to facilitate communication between all software development activities at the NRAO; to maintain an overview of requirements and priorities in all software development. The incumbent will be responsible for the long-range software plan, which includes the resource allocation to carry out the plan, the review of progress on software development projects, the identification of software efforts with overlapping requirements, and will ensure that adequate attention is given to software in telescope development initiatives and projects. This position will serve as the NRAO's interface with the user community in matters of computing and data management.

A Bachelor's degree in the physical sciences, computer science, or equivalent is required; an advanced degree is preferred. At least 10 years experience in the management of software development projects is essential. Ability to lead, manage and interact smoothly with colleagues and to deal effectively with

users' demands is essential. Experience with automated processing of scientific data is highly desirable. Experience with management of geographically separated groups is preferred.

This position will be located in Charlottesville, Virginia.

No. 20647

Junior Scientific Researcher (Theoretical Astrophysics)

INSTITUTE FOR ASTRONOMY

2530 Dole St.

Sakamaki Hall D-100

Honolulu, Hawaii 96822

USA

Tel: 808/956-7307

FAX: 808/956-5022

URL1: <http://http://rcuhweb1.rcuh.com/servlets/iclientservlet/hrms8/?>

[ICType=Panel&Menu=ROLE_APPLICATION&Market=GBL&PanelGroupName=HR_JOB_POST](http://http://rcuhweb1.rcuh.com/servlets/iclientservlet/hrms8/?ICType=Panel&Menu=ROLE_APPLICATION&Market=GBL&PanelGroupName=HR_JOB_POST)

(To apply online)

Email Inquiries: szapudi@ifa.hawaii.edu

Attention: Nelson Sakamoto, Director of Human Resources

JUNIOR SCIENTIFIC RESEARCHER IN THEORETICAL ASTROPHYSICS ID# 23619

The Institute for Astronomy, University of Hawaii in Honolulu, Hawaii invites applications for non-regular, full-time postdoctoral position. Perform work on novel techniques to analyze large data sets, particularly megapixel CMB maps & large galaxy surveys. Project also includes development, testing & implementation of new analysis methods, as well as data & simulations. Closing date for this recruitment is: March 1, 2004.

Candidates should have a Ph.D. in Astronomy or Physics. (Ph.D. candidates may apply but must submit evidence of Ph.D. completion upon hire). Experience in CMB and/or large-scale structure research. Experience in computational methods, data analysis & programming. Knowledge of CMB and/or large-scale structure research. Skill in computational methods, data analysis & programming. Minimum Salary: \$4,231.00/month.

Prospective candidates are encouraged to call or email Istvan Szapudi (808-956-6196, szapudi@ifa.hawaii.edu) to discuss scientific aspects of the job.

TO APPLY: The preferred method of applying for this job is through our on-line application process. Please go to www.rcuh.com, click on "Employment" and navigate to "Job Announcements/Apply for a Job." However, if you do not have access to the Internet, you may apply by submitting resume; cover letter including ID#, referral source, narrative of your qualifications for position and salary history; names, phone numbers and addresses of three supervisory references and copy of degree (s)/transcripts/certificate(s) to confirm your credentials by fax (808) 956-5022 or mail to Director of Human Resources, Research Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 before the closing date. EEO/AA Employer

No. 20595

ASTRONOMY INSTRUCTOR

CITY COLLEGE OF SAN FRANCISCO
33 Gough Street
San Francisco, CA 94103
USA
Tel: 415-241-2246
FAX: 415-241-2335
URL1: <http://www.ccsf.edu/hr>
(Job Announcement Information)

Attention: Clara Starr, Director of Human Resources

City College of San Francisco is currently accepting applications for the Astronomy Instructor position. The Astronomy Department is seeking to fill a Full-Time, Tenured-Track position, as well as establishing a part-time pool. The job entails but is not limited to the following duties:

EXAMPLES OF DUTIES:

1. Teach a mix of astronomy courses offered at City College of San Francisco;
2. Teach laboratory classes, including proper use and care of the planetarium, observatory, CCD Camera, and other laboratory equipment;
3. Teach day, evening, and/or Saturday classes, or classes at other sites, as required;
4. Hold office hours and be available to assist and advise students at times convenient to them;
5. Participate in Department student mentoring activities;
6. Participate in Department community outreach activities;
7. Participate in revising and updating the astronomy curriculum;
8. Participate in development of new astronomy courses;
9. Perform other related duties, as assigned by the supervisor.

For job announcement and application form, please call (415) 241-2246 or download from www.ccsf.edu/hr. Submit all application materials to Human Resources Department, City College of San Francisco at 33 Gough Street, San Francisco, CA 94103 OR fax to (415) 241-2335. Application materials sent via email will NOT be accepted. Postmarks will NOT be honored.

No. 20631
Support Scientist
UNIVERSITY OF CALIFORNIA, SANTA CRUZ
University of California, Santa Cruz
1156 High Street
Santa Cruz, CA 95064
USA
Tel: 831.459.2991
FAX: 831.459.5244
URL1: <http://www.ucolick.org>
Email Submission Address: director@ucolick.org

Attention: Joseph Miller, Director

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

L I C K O B S E R V A T O R Y S u p p o r t S c i e n t i s t

The University of California Observatories/Lick Observatory invites applications for a non-ladder-rank academic position in the UCO/Lick Observatory. Contingent on the availability of funding, the appointment initially will be for two years beginning May 1, 2004, with the possibility of extension. The appointee will work closely with faculty and technical staff and will be under the general direction of the UCO/Lick Observatory Director, with responsibility for supporting and enhancing the operation of the Shane 3-meter and smaller telescopes and their associated instrumentation. Major areas of responsibility include support of adaptive optics, laser guide star, and infrared equipment. Specific duties will include: provide instruction and scientific guidance to observers; support installation and commissioning of new equipment; write user manuals; monitor scientific and technical performance and condition of research equipment; carry out observing programs for observers, as requested; provide support for remote observing; perform on-call trouble-shooting and simple repairs; conduct observatory tours and night viewing programs, as scheduled by Director. Initiation and joint participation in research programs leading to published results is also encouraged. Special consideration will be given to candidates who have experience with measurement and testing of optical components or sub-systems. Considerable nighttime work required. Opportunity to carry out personal observing programs with approval of Director. Applicant expected to reside in University-subsidized residence on Mt. Hamilton.

RANK: Associate Specialist I-III

SALARY: \$45,048-\$51,660

MINIMUM QUALIFICATIONS: PhD or equivalent experience in astronomy/physics or related field. Candidates must have working knowledge of AO systems, computer programming, data reduction, and electronics. Experience with operation of large telescopes and a working knowledge of modern astronomical instrumentation, including high-precision optical alignment and calibration, is a requirement. Candidates must have the ability to work with a diverse population and have excellent communication skills.

POSITION AVAILABLE: May 1, 2004 (start date negotiable).

APPLY TO: Applicants should send a vita with list of publications and the names of at least three professional referees (include postal and email addresses and phone number) who have been asked by the applicant to submit letters of recommendation to:

Associate Specialist Recruitment c/o UCO/Lick, Office of the Director University of California Santa Cruz, CA 95064 Please refer to provision #T04-12 in your reply.

CLOSING DATE: All materials must be received no later than March 15, 2004.

No. 20636

Postdoctoral Research Positions in Astrophysics and e-Science

DEPARTMENT OF PHYSICS, UNIVERSITY OF DURHAM

University of Durham

South Road

UK

Tel:

Email Inquiries: c.s.frenk@durham.ac.uk

Attention: Mrs Dorothy Jenkins (Postdoc Application)

We invite applications for postdoctoral positions. We anticipate funding for research in theory and/or observations within the broad area of extragalactic astronomy and cosmology. Applicants should have research interests and experience in one or more of the following topics: galaxy formation and evolution, the high redshift universe, numerical simulations, large-scale structure, galaxy dynamics, and stellar populations.

We also expect to have a post specifically for applications of e-Science to the areas mentioned above. For this post, experience either in astronomical research or in applied computer science (or both) is required.

Durham hosts one of the largest research groups in Europe dedicated to theoretical and observational cosmology and extragalactic astronomy. Currently we have 12 permanent members of staff, 5 long-term research fellows, and about 25 postdocs and students. We have access to all UK national observing facilities, local access to the Magellan telescopes, and to extensive supercomputing resources, including a dedicated supercomputer in Durham.

For all posts, salary and research support will be at standard UK rates. The starting date is negotiable. Applications, including a curriculum vitae, publication list and a statement of research interests, should be sent to Mrs. D. Jenkins at the above address by March/31/04, quoting reference 'Postdoc' and stating whether the application is intended for the post in Astronomy, e-Science or both. Applicants should arrange for up to three letters of recommendation to arrive at the same address by this date.

Informal enquiries may be made to Professor Frenk at the Physics Department. (Tel + 44 191-334-3641, or email C.S.Frenk@Durham.ac.uk).

No. 20637

Postdoctoral Research Associate in Extragalactic Astrophysics

UNIVERSITY OF SHEFFIELD

University of Sheffield

The Hick Building

Sheffield, South Yorkshire S3 7RH

UK

Tel: +44-114-2224300

FAX: +44-114-2728079

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

URL2: <http://www.shef.ac.uk/physics>

Email Submission Address: c.tadhunter@sheffield.ac.uk

Attention: Clive Tadhunter, Professor

Applications are invited for a Postdoctoral Research Associate to work with Prof Clive Tadhunter on a programme of forefront research into the links between galaxy evolution and AGN/jet activity. The project will involve the analysis and modelling of high quality data taken with the ESO VLT and other major telescope facilities.

The Research Associate will join the rapidly expanding Astrophysics Group in the Department of Physics and Astronomy at Sheffield, which has research interests in the fields of active galaxies, quasars, galaxy evolution, massive stars, star clusters, star formation, interacting binary star systems and time domain astrophysics.

Applicants should have a PhD in astronomy or a related field, and experience in the analysis of astronomical spectra. Background knowledge of the AGN field is desirable.

The appointment will be made for up to three years from 1 April 2004 or as soon as possible thereafter, and the salary will be in the range £20,311 - £27,339, depending on age and experience.

Informal enquiries are welcomed by Prof Clive Tadhunter (Tel: +44-114-2224300, c.tadhunter@sheffield.ac.uk). Further information about the post and how to apply can be obtained from the web (<http://www.shef.ac.uk/jobs>) or by sending an e-mail message to jobs@sheffield.ac.uk quoting reference number R3193. The closing date for applications is 12 March 2004.

No. 20638

**Postdoctoral Position in Galactic Astronomy
RENSSELAER POLYTECHNIC INSTITUTE**

110 8th St.

Troy, NY 12180

USA

Tel: (518) 276-2652

FAX: (518) 276-6680

Email Submission Address: heidi@rpi.edu

Email Inquiries: heidi@rpi.edu

Attention: Prof. Heidi Newberg, Associate Professor of Physics

Rensselaer Polytechnic Institute invites applications for a postdoctoral research associate position in Galactic Structure. Opportunities, if appropriate, will be provided to teach introductory physics in Rensselaer's award-winning studio physics classrooms with experienced course coordinators.

The successful candidate will work with Heidi Newberg and an international group of scientists using data from the Sloan Digital Sky Survey (SDSS) to discover substructure in the Milky Way halo and thick disk. In addition to his or her own research program, the successful applicant will be expected to collaborate with the PI to provide scientific support for a possible 3-year extension to the SDSS which would highlight Galactic structure studies.

The nominal starting date is July, 2004, but earlier/later appointments are negotiable. The initial appointment is for one year, renewable for up to three years, contingent on performance and pending funding. Applicants should have a Ph.D. in astronomy or physics at the start of the appointment. Good computer skills and experience in astronomical data analysis (stellar spectroscopy and/or photometry) are also expected.

To be considered, send a CV, research statement, and three letters of recommendation (including telephone numbers and email addresses) to: Heidi Newberg, Physics Department, Rensselaer Polytechnic Institute, 110 8th St., Troy, NY 12180. E-mail inquiries to heidi@rpi.edu. Applications received before March 3, 2004, are guaranteed full consideration. Women and minorities are encouraged to apply.

No. 20630

Postdoctoral Research Associates in High Energy Astrophysics

UNIVERSITY OF MASSACHUSETTS
710 N. Pleasant Street
619 Lederle Graduate Research Tower
Amherst, MA 01038
Tel: 413-545-0789
FAX: 413-545-4223
URL1: <http://www.astro.umass.edu>
(Astronomy web site)
Email Submission Address: keywordh@astro.umass.edu

Attention: Daniel Wang, c/o Barbara Keyworth

Applicants are invited for one or more postdoctoral research positions in the UMASS high energy astrophysics group led by Daniel Wang. The successful applicants will be involved in the planning and implementation of observing programs, the analysis and interpretation of data from HST, Chandra, and XMM-Newton as well as other space and ground-based observatories, and the publication of scientific results. A PhD is required, and strong background in both theory and data analysis of diffuse X-ray emission would be a significant advantage. The salary will be commensurate with qualifications and experience. The position is for one year initially with the possibility of renewal for a second and third year, depending on funding availability. To apply, please submit a resume consisting of CV and a statement of research interests and arrange for three letters of recommendation to be sent to the above address. Review of applications will begin March 2, 2003 and will continue until the positions are filled. Start dates are negotiable.

Women and members of minority groups are encouraged to apply. The University is an AAE/EOE.

No. 20639
Postdoctoral Associate
CARNEGIE OBSERVATORIES
813 Santa Barbara Street
Pasadena, CA 91101
USA
Tel: 626-304-0257
FAX: 626-304-0266
URL1: <http://www.ociw.edu>
Email Submission Address: mulchaey@ociw.edu
Email Inquiries: mulchaey@ociw.edu

Attention: Dr. John Mulchaey, Staff Astronomer

The Carnegie Observatories in Pasadena, California invites applications for a postdoctoral associate position in extragalactic astronomy to begin 1 September 2004. The postdoc will work with Dr. John S. Mulchaey on optical and X-ray studies of galaxy groups. Previous experience with space-based datasets (especially Chandra, XMM-Newton and HST) and/or ground-based multi-object spectroscopy is desirable.

The successful applicant will be provided with a research budget and will have full access to an advanced workstation. The postdoc will also have access to Carnegie's facilities at Las Campanas, Chile including the two 6.5-meter Magellan telescopes and the 2.5-meter du Pont telescope. The appointment

will be for two years, with a possible third-year extension based on performance.

The application should include a curriculum vitae, bibliography, and a description of past and current research. In addition, applicants should arrange for three letters of reference to be sent directly to the above address by the deadline. Applicants who applied for the Carnegie postdoctoral fellowship this year do not need to send in a new application. However, they must notify Dr. Mulchaey via email of their desire to be considered for this position.

Applications and all supporting material must be received before 1 March 2004 to receive full consideration.

The Carnegie Institution of Washington is an Equal Opportunity Employer.

No. 20608

Senior Research Associate in Numerical Simulation of Astronomical Adaptive Optics

UNIVERSITY OF DURHAM

University Office

Old Shire Hall

Durham, County Durham DH1 3HP

United Kingdom

Tel:

URL1: <http://aig-www.dur.ac.uk>

(Group Web Page)

URL2: <http://www.dur.ac.uk>

(University Web Page)

Email Inquiries: d.j.robertson@durham.ac.uk

Attention: Personnel Department

This position relates to the development of a new simulation facility capable of modelling an adaptive optics (AO) system for a next generation Extremely Large Telescope (ELT). The AIG has developed a parallelised code for the purpose of modelling AO systems on 4-8m class telescopes, and the successful candidate will be expected to build on this existing system.

Essential skills for the post are good working knowledge of one or more standard software languages for general purpose programming and at least a basic grounding in one or more of the following: astronomical adaptive optics, parallel programming, programmable logic for hardware acceleration.

A PhD qualification in a physical science is highly desirable although a good degree with at least 5 years relevant experience in a similarly related field may be considered.

The position is funded by the UK Particle Physics and Astronomy Research Council (PPARC) and is for an initial period of 2 years.

Salary will be on re RA1A scale in the range 20,311 UK Pounds to 24,121 UK Pounds (under review) depending on qualifications and experience.

No. 20626

Evolution of circumstellar dust disks to planetary systems

MAX-PLANCK-INSTITUTE FOR ASTRONOMY

Koenigstuhl 17

Heidelberg, Germany D - 69117

Germany

Tel: 0049 6221 528406

FAX: 0049 6221 528373

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

Email Inquiries: swolf@mpia.de

Attention: Personnel Department (17-03)

A position for a Ph.D. student is available in the new Emmy Noether Research Group "Evolution of circumstellar dust disks to planetary systems" at the Max Planck Institute for Astronomy in Heidelberg, Germany. It is initially for 2 years with a possible extension to a total of 4 years.

The Emmy Noether Research Group, when fully established in mid-2004, will consist of the group leader, a Postdoc, a Ph.D. student and possibly several diploma students. It is embedded in the department "Star and Planet Formation" at the MPIA. The successful applicant is expected to perform observational and theoretical studies on the evolution of circumstellar disks from young massive gas/dust disks to possibly planet-harboured debris disks.

Applicants should hold the equivalent of an MSc in astronomy or physics (Dipl.-Phys.) and ideally should have first experiences with astronomical research (numerical simulations / analysis of astronomical observations).

The position is available on the German BAT federal public service scale (BAT IIa/2).

Interested students are invited to send an application including a curriculum vitae, copies of University degrees/records, and two letters of recommendation to the address above or electronically by e-mail to Dr. Sebastian Wolf.

Applications received before March 15, 2004 will receive fullest consideration. Later applications will be considered on the basis of availability. This position will be open until a suitable candidate is found.

The MPIA is an equal opportunity employer and particularly welcomes applications from women and minorities.

No. 20625

Star - and Planet Formation, Evolution of Circumstellar Dust Disks to Planetary Systems

MAX-PLANCK-INSTITUTE FOR ASTRONOMY

Koenigstuhl 17

Germany

Tel: 0049 6221 528 406

FAX: 0049 6221 528 373

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

Email Inquiries: swolf@mpia.de

Attention: Personnel Department (16-03)

Numerical Modelling and/or Star/Planet Formation (16-03)

The MPIA department "Star and Planet Formation" invites applications for a postdoctoral position in the Emmy Noether Research Group "Evolution of Circumstellar Dust Disks to Planetary Systems". The position is initially for 2 years with a possible extension to a total of 4 years.

We are searching for an internationally recognized scientist working in the area of circumstellar disk evolution and planet formation with significant knowledge and experience in numerical modelling techniques. The successful candidate is expected to investigate various phases of the planet formation in circumstellar disks on the basis of predominantly hydrodynamic and/or N-particle/SPH simulations. In addition to the general computing facilities of the MPIA, the successful candidate will have access to special computers including a multiprocessor workstation, an ORIGIN 2000 system, and a cluster of special hardware devices (GRAPE-5/6) connected to local PC clusters. The MPIA has access to two computing centers with several parallel systems: At the IPP Computing Center Garching: a 4.0 TFlop/s IBM pSeries "Regatta" system and a vector NEC SX-5/3C supercomputer at the GWDG (society for scientific computing) in Goettingen: a 422 GigaFlop/s Regatta System and a 55 node linux cluster (2 x 3 GHz XEON each).

The position is available on the German BAT scale (BAT IIa).

Prerequisites: - PhD in astrophysics, physics, or related field by the start of the appointment; - Profound experience in numerical modelling, in particular in hydrodynamic simulations and/or N-particle/SPH simulations.

The application should briefly describe research experience and interests, and should include a complete curriculum vitae and bibliography. At least two letters of recommendation should be sent directly to the address above. Applications received before March 15, 2004 will receive fullest consideration. Later applications will be considered on the basis of availability. This position will be open until a suitable candidate is found.

We encourage applications from women, minorities and disabled persons. Star and planet formation/Evolution of circumstellar dust disks to planetary systems

No. 20642

Post Doctoral Research Associate

NATIONAL OPTICAL ASTRONOMY OBSERVATORY

P. O. Box 26732

Tucson, Arizona 85726-6732

USA

Tel: 520-318-8100

FAX: 520-318-8560

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

Email Submission Address: hrnoao@noao.edu

Email Inquiries: bellerbroek@noao.edu

Attention: Human Resources Manager, Attn: Post Doctoral NIO

Applicants are sought to fill a two-year research position having as its main focus the evaluation and

development of advanced adaptive optics systems concepts for large and future extremely large telescopes. The position, funded jointly by the AURA New Initiatives office and the Center for Adaptive Optics is open to researchers with a strong background in astronomical applications of AO and/or AO system design and analysis; a PhD in astronomy, optics or a related science is required.

The successful candidate must show evidence of experience and expertise in the following areas:

- Developing AO systems concepts and requirements from astronomical research objectives - Familiarity with existing and planned AO system concepts and capabilities for large and extremely large telescopes. - Analytical and simulation modeling methods for AO and astronomical applications of AO - Supporting computer programming skills - Scientific documentation and communication skills

Familiarity with and experience in exploring or developing concepts for, and astronomical application of, wide (to very wide) field-of-view AO is of particular interest.

The successful applicant will be based at the National Optical Astronomy Observatory in Tucson, Arizona, and from that base will work closely with researchers at the AURA-NIO and CfAO. Applications are sought from both young postdoctoral researchers and from more senior individuals interested in a visiting position. The position will become available during the fourth quarter of calendar year 2003.

Questions regarding the position should be sent to Dr. Brent Ellerbroek, AURA New Initiatives Office (bellerbroek@noao.edu).

Interested candidates are asked to submit a vita, bibliography and 3 letters of recommendation by February 29, 2004. Please send materials electronically to: hrnoao@noao.edu, or mail to:

Human Resources Manager National Optical Astronomy Observatory ATTN: Post Doctoral Adaptive Optics PO Box 26732 Tucson, AZ 85726-6732

NOAO is an Equal Opportunity Employer with an affirmative action program and hiring preference for qualified Native American candidates living on or near the Tohono O'odham Reservation. We value and foster a diverse research environment. Women and underrepresented minorities are strongly encouraged to apply.

No. 20597

Post Doctoral Research Associate in Astrophysics

TECHNION

Technion

Israel

Tel: 972-4-829-5561

FAX: 972-4-829-5755

URL1: <http://physics.technion.ac.il/>

(Physics Department, Technion)

URL2: <http://physics.technion.ac.il/~astro>

(Astrophysics, Technion)

Email Submission Address: behar@physics.technion.ac.il

Email Inquiries: behar@physics.technion.ac.il

Attention: Ehud Behar, Dr.

The Technion Astrophysics Group announces the availability of one or more postdoctoral fellowships starting fall of 2004. Appointments are for a two-year period with an option for a third year extension. Appointments will be reviewed annually.

The Technion Astrophysics Group includes seven faculty members as well as several post doctorate research scientists and many graduate students working on a variety of theoretical and observational topics. Those include: Theory of gamma ray bursts, hydrodynamic instabilities and radiative effects in accretion flows, formation and evolution of stars and close binary systems, planetary nebulae, theory and observations of active galaxies, cosmology, formation of large scale structure, and observational X-ray astrophysics with Chandra and XMM-Newton. Candidates with similar interests are particularly encouraged to apply, but applications will be evaluated strictly on the basis of the scientific excellence of the candidate. Successful applicants will be encouraged to follow their own scientific inclinations.

Applicants should have recently received a Ph.D. in physics or astronomy by the time of appointment and should send a letter stating their research interests (two pages maximum) along with a CV, refereed publication list, and three letters of reference to the address above. The deadline for receipt of all application materials is March 31, 2004, or until the position is filled. The position is open for candidates of all nationalities.

No. 20598

Postdoc in stellar astrophysics (pulsating stars)

SOUTHWEST MISSOURI STATE UNIVERSITY

Dept. of Physics, Astronomy, and Materials Science

901 S. National

Springfield, MO 65804

USA

Tel: 417-836-5131

FAX: 417-836-6226

Email Submission Address: reg796f@smsu.edu

Email Inquiries: mreed@sdbv.smsu.edu

Attention: Ryan Giedd, Department Head

Southwest Missouri State University is accepting applications for a Postdoctoral Research Associate in the Physics, Astronomy, and Materials Science Department to work on photometric CCD observations using local (0.4m) and national facilities. The successful applicant will have some responsibility for observations, data reduction, analysis, and publication on our project to resolve pulsations in subdwarf B stars. He/she may also become involved in other areas of research on these stars, including time-series spectroscopy and radial velocity surveys.

A Doctoral degree in Astronomy, Physics, Astrophysics or a closely related field and effective written and verbal communication skills are required. Observational experience and expertise in IRAF data reduction software, Linux/UNIX, and stellar astrophysics (particularly asteroseismology) is preferred. Anticipated starting date is spring/summer 2004. This position is initially for one year with additional years contingent on performance and continued funding.

Submit a letter of interest, curriculum vitae, copies of transcripts, statement of research interests, and three letters of recommendation. Screening of applicants has already begun and will continue until position is filled. Direct further inquiries to Dr. Mike Reed: mreed@sdbv.smsu.edu.

No. 20643
Staff Scientist
CALIFORNIA INSTITUTE OF TECHNOLOGY
770 So. Wilson Ave.
Pasadena, CA 91125
USA
Tel:
URL1: <http://msc.caltech.edu>

Attention: Mary Ellen Barba, Supervisor of Staff Operations

The Michelson Science Center (MSC) at the Infrared Processing and Analysis Center (IPAC) and the California Institute of Technology (Caltech) announces an opportunity for a staff scientist to lead the scientific effort in developing the MSC Tool Set -- a suite of tools designed to support science users of the broad set science missions and facilities within many of NASA's exo-planet projects: the Space Interferometry Mission (SIM), the Keck Interferometer (KI), and the Large Binocular Telescope Interferometer (LBTI). This MSC Tool Set will aid the user community in getting the most efficient/effective science from selected NASA Origins observing facilities, and will exploit common science & technical themes among supported missions to yield implementation efficiencies & science synergies. Please find more information about the MSC and the projects we support at:

<http://msc.caltech.edu> .

The position requires a PhD in Astronomy, Physics, or related discipline plus four or more years of demonstrated experience in optical/IR, millimeter-wave, or radio interferometry. The applicant should have broad experience in the use of widely-available astronomical software.

We particularly encourage applicants with significant experience and a published record in optical/IR interferometry, astrometry, and/or demonstrated experience in the development widely-used astronomical software. Demonstrated facility in modern programming notations and software development methodologies is a plus.

The successful applicant will be a staff scientist at MSC, a part of the MSC Tool Set development team, and providing science leadership in defining the goals, requirements, documentation, community advocacy, and look-and feel of the development activity. The selected individual will further contribute to the design, development, and testing for the MSC Tool Set activity, and have a fraction of their time reserved for independent research. Depending on the interests and qualifications of the applicant, as much as 50% of the applicant's time can be reserved for independent research using facilities such as the Palomar Testbed Interferometer, the Keck Interferometer, and the Palomar 5-m telescope.

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

No. 20634
CFHT Resident Astronomer
UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY
2680 Woodlawn Drive
Honolulu, HI 96822
USA

Tel: 808-956-8566
FAX: 808-946-3467
Email Inquiries: kud@ifa.hawaii.edu

Attention: Dr. Rolf Kudritzki, Director (Please reference Position Number 86321T)

Applications are invited for the University of Hawaii (UH) Resident Astronomer position at the Canada-France-Hawaii Telescope (CFHT). Based at CFHT headquarters in Waimea, Hawaii, this position is available on or after April 1, 2004. Initial appointment is for three years, annually renewable thereafter.

Exciting new developments are underway at CFHT. MegaCam, an 18K x 18K CCD camera, is now operational under a Queue Service Observing (QSO) model. The CFHT Legacy Survey, a 500-night survey (over five years), is underway with MegaCam. Later this year, CFHT will commission WIRCam, a 4K x 4K wide-field infrared camera, and ESPaDOnS, a fiber-fed spectropolarimeter. The observatory is particularly seeking an excellent scientist capable of guiding development and/or operations in wide-field optical or infrared imaging. Candidates with interests in other areas, such as adaptive optics or high-resolution spectroscopy, are also encouraged to apply. Resident Astronomers support visiting observers, may be assigned to QSO coordination, and may serve as project scientists for instrumentation developments. They have approximately one third of their time for personal research and have access to Director's discretionary time on the telescope. The UH Resident Astronomer may compete for time on all the telescopes to which the University of Hawaii has access. Additional information about CFHT is available at its website www.cfht.hawaii.edu.

The UH Resident Astronomer at CFHT is a State-funded non-tenure-track faculty member of the UH Institute for Astronomy. This appointment will be made at either the Assistant or the Associate level.

Minimum Qualifications: At the Assistant level: Ph.D. in astronomy or related field, combined with extensive experience in observational optical and/or infrared astronomy. Additionally at the Associate level: four years experience at the Assistant level. For both levels, the individual selected must pass a physical exam showing aptitude to work at 4200 meters altitude. Salary will be commensurate with qualifications and experience. Applications must include a curriculum vitae, list of publications, statement of research interests including those particularly suited to CFHT, and a statement addressing the applicant's aptitude for CFHT support tasks. Applications should be sent to Dr. Rolf Kudritzki, Director at the above address. The deadline for receipt is March 2, 2004. Candidates should also arrange for three letters of reference to be sent to the same address. Inquiries: Institute for Astronomy at (808) 956-8566 or CFHT headquarters at (808) 885-7944. EEO/AA Employer.

No. 20644
Visiting Graduate Student
CALIFORNIA INSTITUTE OF TECHNOLOGY
1200 E. California Blvd.
MS 220-6
Pasadena, CA 91125
USA
Tel:
URL1: <http://spikder.ipac.caltech.edu/staff/apple.VGSP.html>

Attention: Dr. Philip Appleton, Staff Scientist

VISITING GRADUATE STUDENT SHORT-TERM FELLOWSHIPS 2004/5 SIRTFC SCIENCE CENTER

Visiting Graduate Student Short-term Fellowships SPITZER SCIENCE CENTER Mail Code 220-6
Keith Spalding Building California Institute of Technology 1200 E. California Blvd. Pasadena CA
91125

Attention: Dr. Philip Appleton (apple@ipac.caltech.edu)

The Spitzer Science Center (SSC) announces the availability of six-month graduate-student fellowships beginning May-June 2004 designed to allow students from other institutions throughout the world to visit the SSC and perform astronomical research in close association with a research staff member during 2004/2005. The aim of the program is to provide a graduate student from another institution with the opportunity of working at the SSC during the Spitzer mission, and to share in the excitement of NASA's latest Great Observatory first hand by working with the scientists who are closely involved with it. A web page (see below) lists potential project areas and associated staff contacts at the SSC. Applicants would normally be expected to have completed preliminary course work in their graduate program and be available for research during the period of the award. Funding from the SSC will normally be provided for a 6 month period during the 05/2004 to 06/2005 period, although start dates earlier than this are possible. Stipends will cover living expenses for any six-month period plus airfare to the SSC from the home institution. Typically 4-6 students per year will be accepted on the program. Application instructions are available at the web site <http://spider.ipac.caltech.edu/staff/apple/VGSP.html>.

The deadline for applications is March 15 2004. Email submissions will not be accepted.

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

No. 20617
Postdoctoral Associate in Observational Cosmology
YALE UNIVERSITY
260 Whitney Ave.
P.O. Box 208101
New Haven, CT 06511
USA
Tel: 203-432-3000
FAX: 203-432-5048
Email Submission Address: delong@astro.yale.edu
Email Inquiries: dokkum@astro.yale.edu

Attention: Pieter van Dokkum, Professor

Applicants are invited for a post-doctoral research position at the Yale Astronomy Department to work in collaboration with Dr. Pieter van Dokkum on studies of a newly discovered population of red galaxies at redshifts >2 . The successful applicant will focus on the analysis, interpretation, and/or modeling of ground- and space-based imaging and spectroscopic observations. Part of the time will be available for independent research.

Candidates must hold a Ph.D. in astronomy or related field by date of appointment. Technical expertise should preferably include experience with IRAF and data analysis. The appointment will be for three years.

Applicants should send a cover letter, curriculum vitae, list of publications, and a (1-2 page) description of research accomplishments and relevant technical experience, to the above address. They should also arrange for three letters of recommendation to be sent directly to the same address. Completed applications received by March 5, 2004 will receive full consideration. Yale University particularly encourages applications from women and members of underrepresented minority groups. AAE/EOE.

No. 20633

Postdoctoral Position in Observational Cosmology

CASE WESTERN RESERVE UNIVERSITY

Dept. of Physics

10900 Euclid Ave.

Cleveland, OH 44106

USA

Tel: 216 368 4257

FAX: 216 368 4671

Email Submission Address: lmr5@cwru.edu

Email Inquiries: john.ruhl@case.edu

Attention: Lori Rotar Morton

Applications are invited for a postdoctoral position in observational cosmology at Case Western Reserve University with Professor John Ruhl. We are currently working on several instruments that will measure the detailed properties of the cosmic microwave background (CMB). These include balloon-borne and ground-based efforts to measure the fine-scale anisotropy and polarization of the CMB, and to detect clusters of galaxies via the Sunyaev-Zeldovich effect. We are also working on the development of a new technology for mm-wave CMB polarimetry, and on the design and construction of an 8m diameter mm-wave telescope at the South Pole. The candidate should hold a Ph.D. in physics, astronomy, or a closely related field. Previous experience in one or more of the following areas is useful but not essential: cosmology, low-noise electronics, telescope design, cryogenics, and microwave, millimeter-wave or sub-millimeter instrumentation. Applicants should send a curriculum vitae, brief summary of research experience, bibliography, and three letters of recommendation to: Lori Rotar Morton, Dept. of Physics, Case Western Reserve University, 10900 Euclid Ave., Cleveland OH, 44106-7079. Applications will be reviewed beginning April 1, 2004 and will be considered until the position is filled. Case Western Reserve University is an affirmative action/equal opportunity employer, and encourages applications from women, minorities, veterans and disabled persons.

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. 20628

Post-doctoral Research Position in Radio Astronomy

UNIVERSITY OF OXFORD

Denys Wilkinson Building

Keble Road

UK

Tel:

FAX: +44 1865 273390

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

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

Email Inquiries: sr@astro.ox.ac.uk

Attention: Mrs L Walker

Post-doctoral Research Position in Radio Astronomy (DB04002)

The Department of Physics invites applications for a postdoctoral research position in radio astronomy from 1st April 2004. The appointee will be expected to participate in the group's research programme using data from existing radio facilities and/or undertaking scientific simulations relevant to next-generation facilities like the Square Kilometre Array. We particularly welcome applications from

candidates with a proven record of research in any of the following areas: observational radio astronomy; interferometry; e-Science; data analysis software; numerical simulations; theoretical topics of relevance to next-generation radio telescopes.

Further particulars of the post and more information on the group's research programme may be obtained from <http://www-astro.physics.ox.ac.uk> Research interests of members of the department include: theoretical and observational cosmology, large-scale structure, gravitational lensing, galaxies and star formation at high redshift, AGN as cosmological probes, the physics of outflows from AGN, microquasars and Gamma Ray Bursts.

The postholder will be expected to teach up to 3 hours per week during term.

Appointments will be made for 2 years with a possible extension to 3 years with a starting salary (on the RS1A scale) from 18,265 - 27,339 pounds pa (pay award pending), depending on skills and experience.

Applicants should send a curriculum vitae, a list of publications, and the names and addresses of three referees by the closing date of 31st March 2004, quoting Job Reference: DB04002. In addition, candidates should arrange for letters from the referees to be sent to the address below by the closing date:

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

Please contact Dr. Steve Rawlings (sr@astro.ox.ac.uk) for any queries related to this post.

No. 20620

Postdoctoral Scientist

COLUMBIA UNIVERSITY

Columbia Astrophysics Laboratory

550 West 120th Street

New York, NY 10027

U.S.A.

Tel: 212 854 7899

FAX: 212 854 8121

URL1: <http://www.astro.columbia.edu/~arlin/snpd.html>

Email Submission Address: arlin@astro.columbia.edu

Email Inquiries: arlin@astro.columbia.edu

Attention: Arlin Crotts, Professor

We seek a talented postdoctoral scientist to research the circumstellar and interstellar environment of Supernova 1987A. The work will include completed, ongoing and planned observations of SNR 1987A and its surroundings, including approved ground-based and HST programs, plus data from IUE, UIT, ISO, Spitzer and ground-based telescopes, and including preparation for observations with future ground, airborne and space-based instruments. Research topics include mapping the circumstellar nebula and the interstellar medium of the 30 Doradus region using light echoes, detailing the composition, density and velocity structure of the circumstellar envelope, analyzing polarimetric and photometric properties of surrounding dust, measuring the reflected ultraviolet flux from SN shock breakout, and observing interaction between the SN ejecta and circumstellar envelope during the formation of

Supernova Remnant 1987A. We seek excellent candidates practiced in some of the above observational techniques and knowledgeable concerning circumstellar and interstellar processes. The person selected will study these problems with an established, successful team, as well as develop her/his own related investigations, with support for observation, publication and professional travel, and access to the LZT 6-meter Telescope and MDM Observatory's 1.3-meter and 2.4-meter telescopes. This funded position is available for two years, starting autumn 2004, with the possible extension to three years. Applicants should provide curriculum vitae, research summary, and arrange for three letters of reference sent to the address above by 2 March 2004. Hardcopy documents are preferred, but email submission is accepted (TeX/LaTeX - macros included, HTML, plain text, plain MSWord.doc). Columbia University is an Affirmative Action/Equal Opportunity Employer.

No. 20619

Columbia Cosmology Postdoctoral Fellowships

COLUMBIA UNIVERSITY

Columbia Astrophysics Laboratory

550 West 120th Street

New York, NY 10027

U.S.A.

Tel: 212 854 7899

FAX: 212 854 8121

URL1: <http://www.iscap.columbia.edu>

(Institute web site)

Email Submission Address: arlin@astro.columbia.edu

Email Inquiries: arlin@astro.columbia.edu

Attention: Arlin Crotts, Professor

Columbia University is seeking applicants for full-time postdoctoral fellowships for researchers in the fields of cosmology, astro-particle physics and gravitation, as members in its interdisciplinary cosmology center (ISCAP). The center is jointly organized by the departments of Mathematics, Physics and Astronomy, which provide outstanding opportunities for possible collaboration in a wide range of investigations in gravitational and string theory, astro-particle physics, cosmology and astrophysics. Additionally, these departments offer access to exciting research facilities at Fermilab, Kitt Peak, and elsewhere. The successful applicants will be expected to engage in superior quality research, either independently or in collaboration with others at Columbia and nearby, associated institutions. These fellowships will be two-year appointments, renewable for a third year, and include a travel and publications budget. Further information on the fellowships and research at Columbia can be found at the web site <http://www.iscap.columbia.edu> or by contacting Prof. Brian Greene (greene@phys.columbia.edu, phone: 212-854-4347) or Prof. Arlin Crotts (arlin@astro.columbia.edu, phone: 212-854-7899). Applications should include a curriculum vitae, list of publications and a statement of research activities (no more than five pages), plus three letters of reference. Hardcopy documents are preferred. Please send these materials to the address as soon as possible, but no later than 2004 March 2. Columbia University is an Affirmative Action/Equal Opportunity Employer.

No. 20627

University Lectureship in Astrophysics associated with a Fellowship at Wadham College, Oxford

UNIVERSITY OF OXFORD

Denys Wilkinson Building

Keble Road

UK

Tel:
FAX: +44 1865 273390
URL1: <http://www-astro.physics.ox.ac.uk/>
Email Submission Address: sec@astro.ox.ac.uk
Email Inquiries: rld@astro.ox.ac.uk

Attention: Mrs L Walker

The Department of Physics proposes to appoint a University Lecturer in Astrophysics with effect from October 1, 2004 or as soon as possible thereafter. The successful candidate will be offered a Tutorial Fellowship by Wadham College under arrangements described in the further particulars. The combined University and College salary will be according to age on a scale up to £42,900 per annum (as at 1 Oct 2002). This post is part of an expansion in observational astronomy and astronomical instrumentation associated with the appointment of Professor Roger Davies to the Philip Wetton Chair in Astrophysics. Applicants are expected to have an outstanding research programme focused on extragalactic observations and/or instrumentation that will exploit UK access to world class facilities such as Gemini and the ESO VLT.

The Lectureship is associated with a Tutorial Fellowship in Physics at Wadham College. The sub-department of Astrophysics has a wide-ranging research programme including studies of galaxy formation and evolution; stellar populations and galaxy dynamics; active galaxies, galaxy and quasar surveys; large-scale structure, star formation, stellar evolution, binary stars and supernovae; astronomical instrumentation including spectrographs and integral field capabilities; cosmic microwave background radiation; dark matter and early universe theory. We have significant roles in the infrared spectrographs for the 8m Subaru telescope (FMOS) and the ESO VLT (KMOS). We are participating in further proposals to ESO (MUSE) and Gemini (KAOS). The department hosts the UK Gemini Support Group, and has major computing facilities including a 128 node BEOWULF system.

Further particulars of the post and more information on the departmental research programme may be obtained from <http://www-astro.physics.ox.ac.uk/> Applications including a statement of research interests and teaching experience, curriculum vitae, bibliography, and the names and addresses of three referees (not more than two from the same institution) should be sent to arrive no later than 15 March 2004 to Mrs. L. Walker, Sub-department of Astrophysics, The Denys Wilkinson Building, Keble Road Oxford OX1 3RH, UK, quoting job vacancy DB04001, email: sec@astro.ox.ac.uk; fax: 00-44-(0)1865-273390. Questions about the post can be addressed to Professor Roger Davies (rld@astro.ox.ac.uk). Candidates should arrange for letters of reference to be sent to the same address to arrive by the closing date. UK applicants should submit six copies of their application, overseas applicants need only submit one copy.

No. 20645

Postdoctoral Fellowship in Observational Cosmology and AGN

DREXEL UNIVERSITY

Department of Physics

3141 Chestnut Street

Philadelphia, PA 19104

USA

Tel: 215-895-2710

FAX: 215-895-5934

URL1: <http://www.physics.drexel.edu>

(Department of Physics home page)

URL2: <http://www.physics.drexel.edu/research/astro>
(*Drexel Astrophysics Group home page*)
Email Submission Address: vogeley@drexel.edu
Email Inquiries: vogeley@drexel.edu

Attention: Prof. Michael S. Vogeley

The Department of Physics at Drexel University invites applications for a Postdoctoral Fellowship in Astrophysics, beginning in September 2004. The successful applicant will work with Prof. Michael Vogeley and collaborators in one or more of the following areas: studies of AGN using SDSS, SIRTf, GALEX, and ROSAT; observational cosmology with large galaxy and AGN surveys; simulations of structure formation; and statistical methods in cosmology. Prof. Vogeley is a participant in the Sloan Digital Sky Survey. The Astrophysics Group at Drexel has interests in cosmology, stellar dynamics, and high-performance computing (applicants with interest in the latter should apply for the separate postdoctoral position in computational astrophysics) and has lively interactions with the astrophysics group at U.Penn next door.

This position is for two years with possible extension to a third year. Applicants should send a CV, bibliography, statement of research interests, and arrange for three letters of recommendation to be sent by March 31 (later applications may be considered). Informal inquiries may be made by email to Prof. Vogeley (vogeley@drexel.edu).

Drexel University is an Affirmative Action/Equal Opportunity Employer.

No. 20623
INSTRUMENT SCIENTIST
ANGLO-AUSTRALIAN OBSERVATORY
167 Vimiera Road
Eastwood
Sydney, NSW 2074
Australia
Tel: 61293724863
FAX: 61293724860
URL1: <http://www.aao.gov.au/local/www/jobs/>
(*Employment Opportunities*)
URL2: <http://www.aao.gov.au/instsci/>
Email Submission Address: gcs@aaoepp.aao.gov.au
Email Inquiries: jbh@aaoepp.aao.gov.au

Attention: Greta Simms, Recruitment Officer

ANGLO-AUSTRALIAN OBSERVATORY INSTRUMENT SCIENTIST \$60,715 - \$65,642 per annum
(plus employer's superannuation contribution)

Applications are invited for the above position at the Anglo-Australian Observatory's (AAO) headquarters in Sydney, Australia. The AAO is one of the world's leading developers of astronomical instrumentation with systems operating on most of the world's major telescopes. The AAO is a world-class research organization and operates two major optical telescopes located at Siding Spring Mountain near Coonabarabran.

The Observatory is seeking an Instrument Scientist to develop astronomical instrumentation for current and future generations of ground-based and space-based telescopes, including the AAO's own telescopes. The current AAO instrumentation suite includes state of the art fibre optic positioning systems, optical and near infrared imaging systems, tunable filters and spectrographs. Examples of recent developments can be found at <http://www.aao.gov.au/instsci/>

The successful applicant will have a higher degree in engineering, physics, astronomy or similar field; high technical competence; experience in the development and commissioning of complex instrumentation; demonstrated team work and coordinating skills; ability to work and communicate effectively with a broad range of scientific, engineering and technical staff.

The appointment is of indefinite term. In order to apply you need to obtain the employment information package and follow its guidelines. You can get the package by phoning Greta Simms on (02) 9372 4863 or by downloading it from the World Wide Web, <http://www.aao.gov.au/local/www/jobs/>

Applications close on 29 February 2004.

The Anglo-Australian Observatory is an equal opportunity employer.

No. 20612
SOFIA Public Affairs Manager
ASTRONOMICAL SOCIETY OF THE PACIFIC
NASA/Ames Research Center
M/S 144-2
Moffett Field, CA 94035
USA
Tel: 650-604-2128
FAX: 650-604-1984
URL1: <http://www.astrosociety.org/about/career>
Email Submission Address: dbackman@mail.arc.nasa.gov
Email Inquiries: dbackman@mail.arc.nasa.gov

Attention: Dr. Dana Backman, Associate Director

Background: SOFIA (Stratospheric Observatory for Infrared Astronomy) will be the world's largest airborne observatory when it begins operating in 2005, featuring a 2.5- meter telescope mounted in a modified Boeing 747SP aircraft. SOFIA is being developed and will be operated for NASA by Universities Space Research Association (USRA). SOFIA's extensive education and public outreach program is being conducted by an alliance of two well-known astronomy organizations, the SETI Institute and the Astronomical Society of the Pacific.

Job Summary: The Public Affairs Manager will be responsible for ensuring high quality media and public visibility for the SOFIA observatory, supervising a staff of 3-4 assistants once SOFIA reaches full operational status. The Public Affairs Manager will be a key member of the SOFIA Education and Public Outreach (E/PO) office and the SOFIA observatory staff, reporting directly to the head of SOFIA E/PO while coordinating SOFIA public affairs with the SOFIA Project Manager during development and the SOFIA Observatory Director during operations.

For more information, go to www.astrosociety.org/about/career.html

No. 20613

Postdoctoral Fellow, Stellar Astrophysics

MCDONALD OBSERVATORY, THE UNIVERSITY OF TEXAS AT AUSTIN

2511 Speedway, RLM 15.306

1 University Station C1402

Austin, TX 78712-0259

USA

Tel: 512-471-6493

FAX: 512-471-1635

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

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

Email Submission Address: callende@astro.as.utexas.edu

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

Attention: Dr. Carlos Allende Prieto

A Postdoctoral position in Stellar Astrophysics is available at the University of Texas at Austin (UT) to work on the development and application to the analysis of stellar spectra of three-dimensional time-dependent model atmospheres and multi-dimensional LTE and NLTE radiative transfer algorithms. The successful applicant will work closely with Prof. David L. Lambert and Dr. Carlos Allende Prieto (both at UT), as well as with Dr. Martin Asplund (Australian National University).

The post is initially open for one year, but can be extended up to three, depending on satisfactory performance and availability of funds. Serious candidates should have a PhD in mathematics, physics, or astronomy, and experience in one or more of the following areas: radiative transfer, hydrodynamical simulations, high-resolution solar/stellar spectroscopy, and atomic/molecular spectroscopy. Candidates should expect to spend a significant fraction of their time programming (FORTRAN and IDL are the preferred languages). Other activities may involve astronomical observations, data reduction, and proposal preparation. Applicants should send their resume, a summary of their previous work, and list of publications, as well as arrange for 3 letters of recommendation to be sent on their behalf. Applications will be reviewed starting March 8, until the position is filled. Questions can be addressed to C. Allende Prieto by phone or e-mail. The position is available immediately, but the starting date is negotiable. EOE/AAE.

No. 20616

POSTGRADUATE RESEARCHER IN X-RAY ASTRONOMY

UNIVERSITY OF CALIFORNIA, IRVINE

Department of Physics and Astronomy

4129 Frederick Reines Hall

Irvine, CA 92697-4575

USA

Tel:

URL1: <http://www.ps.uci.edu/physics/>

(Department web site)

Email Inquiries: buote@uci.edu

Attention: David A. Buote, Professor of Physics and Astronomy

Applications are invited for a postdoctoral position to work with Prof. David A. Buote on X-ray studies

of galaxies, groups, and clusters. The successful applicant's responsibilities will include analyzing X-ray data from the XMM and Chandra satellites, and preparing observing proposals. The duration of the position is initially for one year, renewable up to three years, contingent on performance and continued funding. Candidates must hold a Ph.D. or equivalent. The position is available immediately, although the start date is negotiable.

Candidates should send a curriculum vitae, bibliography, short (1 page) statement of research interests, and have three letters of recommendation submitted on their behalf to the above address. The application deadline is 29 February 2004, although completed applications will be evaluated as soon as they are received. UCI is committed to excellence through diversity. AAE/EOE.

No. 20615

Postdoctoral Research Fellow in any field of Astronomy

ROYAL ASTRONOMICAL SOCIETY

Burlington House

Piccadilly

London, London W1J 0BQ

UK

Tel: ++ 44 207734 3307

FAX: ++ 44 207494 0166

URL1: <http://www.ras.org.uk>

(Royal Astronomical Society)

Email Submission Address: de@ras.org.uk

Email Inquiries: de@ras.org.uk

Attention: David Elliott, Executive Secretary

The Royal Astronomical Society (RAS) invites applications for a Sir Norman Lockyer Fellowship. This postdoctoral Fellowship is tenable in the UK, and provides support for 3 years, commencing on or about 2004 October 1.

The purpose of the Fellowship is to enable an outstanding research worker to conduct a self-directed programme of research in any astronomical topic (including astrobiology, astroparticle physics, etc.) Any person holding a doctorate from a recognized institution of higher education at the time of taking up the award is eligible: applicants need not be UK citizens, nor members of the RAS (although Fellowships are not normally awarded to scientists already holding a long-term or tenured post). Further details, including application forms, are available on the RAS web site.

Closing date for receipt of applications: 2004 March 26

No. 20640

Instructor of Astronomy

BOWLING GREEN STATE UNIVERSITY

104 Overman Hall

Dept. of Physics & Astronomy

Bowling Green, OH 43403

USA

Tel: 419-372-7244

FAX: 419-372-9938

URL1: <http://physics.bgsu.edu>

Email Inquiries: laird@tycho.bgsu.edu

Attention: *John B. Laird, Chair*

Applications are invited for an astronomy instructor position beginning in August 2004. This is a full-time position teaching undergraduate astronomy and possibly physics courses during the academic year, with additional teaching available during the summer if desired. The appointment is for two years, with the second year contingent on favorable performance evaluation, and may be renewed. A Ph.D. in astronomy or physics is strongly preferred, but an exceptional candidate with an M.S. will be considered. The successful candidates will be expected to contribute to the teaching mission of the Department. They will also be encouraged to be involved in research, either independently or as part of an existing Department program. Applicants should send curriculum vitae and a description of experience and teaching goals and philosophy, and should arrange to have three original letters of recommendation submitted directly on their behalf to: John B. Laird, Chair, Dept. of Physics & Astronomy, Bowling Green State University, Bowling Green, OH 43403. Completed applications should be received by March 15, but all applications will receive full and fair consideration until the position is filled. BGSU is an Affirmative Action/Equal Employment employer and encourages applications from women, minorities, veterans and individuals with disabilities.

No. 20635

**Associate Professorship in Theoretical/Computational Astrophysics
UNIVERSITY OF COPENHAGEN**

Tel:

URL1: <http://www.ku.dk/led/stillinger>.

URL2: <http://ntserv.fys.ku.dk/hco/Bestyrelse/LedigeStillinger/Oversigt.htm>

Email Inquiries: director@nbi.dk

Attention: *Nils O. Andersen*

Faculty Renewal Program, Associate Professorship in Theoretical/Computational Astrophysics

As part of its program for faculty renewal, the Niels Bohr Institute for Astronomy, Physics and Geophysics (NBIfAFG) announces the availability of an associate professorship in theoretical/computational astrophysics. The position will be open from September 1, 2004. The NBIfAFG constitutes the physics department of the University of Copenhagen with a faculty of 65. Details of the research activities of the institute may be found on the home page www.nbifafg.ku.dk

The Institute has a strong involvement in a number of areas in theoretical/computational astrophysics (see <http://www.astro.ku.dk/comp-astro>) and has access to major computing facilities through the Danish Center for Scientific Computing. Future efforts are expected to continue to concentrate on forefront astrophysical research based on the exploitation of these and similar international facilities. Scientists from all areas of theoretical/computational astrophysics are encouraged to apply.

Applicants will be considered for appointment without regard to race, sex, national origin, or religion.

The deadline for applications is March 16, 2004, at 12.00 a.m. Application via e-mail will not be accepted. Notice that this announcement alone cannot form the basis for an application. The full legal announcement must be followed and can be found on the institute homepage, see above, or obtained

from the Personnel Office (Phone: +45 3532 2645) or at www.ku.dk/led/stillinger.

No. 20632

Chair of Astronomy and Space Science

UNIVERSITY OF SOUTHAMPTON

University of Southampton

Southampton, Hampshire SO17 1BJ

UK

Tel: (44)2380-592750

URL1: <http://www.hr.soton.ac.uk>

(Human Resources)

URL2: <http://www.astro.soton.ac.uk>

(Astronomy Group home page)

URL3: <http://www.phys.soton.ac.uk>

(Physics home page)

Email Submission Address: recruit@soton.ac.uk

Email Inquiries: act@phys.soton.ac.uk

Attention: Helen James

The University of Southampton wishes to appoint a new Chair of Astronomy and Space Science, to further develop and enhance its research strength. Applicants must have an outstanding research recording an area that complements and extends the profile of the Astronomy Group. The successful candidate will be expected to contribute significantly to the academic leadership of the Group.

The research of the Astronomy Group covers a wide range of observational and theoretical topics, both galactic and extra-galactic, ranging from investigations of individual stellar systems to cosmological studies of the origin of the X-ray background. The common scientific theme concerns the detailed properties of accretion processes onto compact objects on all scales. Southampton is also a key player in the ESA INTEGRAL gamma-ray astronomy mission and has unique capabilities in mass modelling of high energy instrumentation. Activity in Solar Terrestrial Physics focuses on the earth's magnetosphere and coupling to the solar wind.

The School of Physics and Astronomy is one of only five Physics departments in the UK rated 5* in the 2001 Research Assessment Exercise. It also has research groups in Quantum and Functional Matter, Laser Physics and Theoretical High-Energy Physics.

Further particulars can be obtained from the Human Resources Department, University of Southampton, Highfield, Southampton, SO17 1BJ, telephone +44(0)23 8059 2750, email recruit@soton.ac.uk or minicom: +44 (0) 23 8059 5595. Please quote the reference number 03P0454. Closing date is March 2, 2004

No. 20614

Supervisory Astronomer; Chief, Nautical Almanac Office

US NAVAL OBSERVATORY

3230 NW Randall Way

Silverdale, WA 98393

Tel:

URL1: <http://chart.donhr.navy.mil/>

(Announcement (NW4-1330) and application)

URL2: <http://www.usno.navy.mil/>
(US Naval Observatory (USNO))
URL3: <http://aa.usno.navy.mil/>
(USNO Astron. Applications Dept.)
Email Inquiries: Questions@nw.hroc.navy.mil

Attention: Ms Daphne Hay

This position is located in the Nautical Almanac Office (NAO), Astronomical Applications (AA) Department, of the U.S. Naval Observatory (USNO) in Washington, DC. The incumbent serves as the Chief of the Nautical Almanac Office, one of three divisions in the Astronomical Applications Department. The incumbent has expertise in astronomy and mathematics, with specialization in astrometry or dynamical astronomy desirable. The incumbent is responsible for managing, and participating in, the production of four annual publications containing astronomical data. Program management tasks involve planning and tracking the budget for the publications, meeting the established publication deadlines, coordinating the preparation of the astronomical data, and quality control. As a working scientist, the incumbent participates in the production and verification of astronomical data needed for the publications. Develops new algorithms or adopts existing algorithms needed to produce the required data. Writes new computer software or modifies existing software in a high-level programming language that implements the selected algorithms. He/she participates in determining the scientific content of the publications, coordinates production and distribution with other US government agencies and foreign almanac offices, participates in computing the data presented in the publications, manages the personnel and programs of the office, and consults on matters pertaining to the mission of the office. This job is Announcement Number NW4-1330-K1240919-DE.

No. 20610
Tenure Track Faculty Position in Astrophysics
BOSTON UNIVERSITY
Department of Astronomy
725 Commonwealth Avenue
Boston, MA 02215
USA
Tel: 617-353-2625
FAX: 617-353-5704
URL1: <http://www.bu.edu/astronomy>
(BU Department of Astronomy Homepage)
URL2: <http://www.bu.edu/iar>
(BU Institute for Astrophysical Research)
Email Submission Address: jackson@bu.edu
Email Inquiries: jackson@bu.edu

Attention: Prof. James Jackson, Search Committee Chairman

The Boston University Department of Astronomy and Institute for Astrophysical Research invite applications for a tenure track faculty position in Astrophysics to begin September 2004. Candidates in all areas of astrophysics are invited, though we are especially interested in observational astronomers with a strong instrumentation interest and who will use current Boston University facility instruments. The successful candidate will be expected to lead a robust research program and to participate in the department's undergraduate and graduate teaching missions.

We are searching particularly for candidates who will add to the strengths of our astrophysics faculty and complement our overall existing research enterprise. The Department of Astronomy and affiliated research units currently consists of 15 teaching faculty, 9 research faculty, 18 research associates, 40 graduate students, and over 75 undergraduate majors. Our research broadly spans the disciplines of astrophysics and space physics. Current astrophysics-related research includes the study of the interstellar medium, star formation, stellar astrophysics, galactic structure, quasars and active galactic nuclei, and cosmology.

The successful candidate will have access to significant time on the Perkins Telescope at Lowell Observatory, where new IR and optical instruments are being deployed, to the MIRS instrument at the IRTF, and to BU's state-of-the-art supercomputing facility.

Applicants must have a PhD in astronomy or physics and at least two years of postdoctoral experience. Inquiries and applications, including a curriculum vitae, bibliography, statement of current research interests and plans, and name and address (including e-mail) of three scientists willing to write letters of reference, should be sent to: Prof. James Jackson, Search Committee Chairman, Department of Astronomy, 725 Commonwealth Avenue, Boston, MA 02215 (jackson@bu.edu, 617-353-6499).

Applications received by March 2, 2004 will receive full consideration.

Boston University is an equal opportunity/affirmative action employer. We encourage applications from women and underrepresented minorities.

No. 20602

Postdoctoral Research Position on Observational Cosmology

OSSERVATORIO ASTRONOMIC DI BRERA - INAF

Via Brera, 28

Milano, MI I-20121

ITALY

Tel: **39-02-72320302

FAX: **39-02-72001600

URL1: <http://www.brera.mi.astro.it/annuario2002.html>

(OABr web page)

URL2: <http://www.mi.iasf.cnr.it/Ifctr/attiv.html>

(IASF web page)

URL3: <http://www.lam.oamp.fr/virmos/>

(The ESO VLT VIRMOS project)

Email Submission Address: borsa_VVDS@brera.mi.astro.it

Email Inquiries: iovino@brera.mi.astro.it

Attention: M. Giuliani, Ms.

The Brera Astronomical Observatory (OABr-INAf) invites applications for a Postdoctoral Research Position on observational cosmology.

Qualified applicants must have a PhD or equivalent degree by the date of appointment. Preference will be given to candidates with a record in extragalactic astronomy, observational cosmology or closely related discipline and experience with imaging/spectroscopy data reduction and analysis.

The successful candidate will be involved in reduction and analysis of data from the ongoing VIMOS VLT Deep Survey (VVDS), with emphasis on the following areas: clustering of galaxies at $z \sim 1$, the evolution of galaxy population and clustering to high redshifts (eg. EROS and Ly-break galaxies).

Opportunities to conduct astronomical research at OABr are excellent: our research unit includes scientists from nearby IASF and is involved, other than VVDS, both in the XMM-LSS survey and in the COSMOS legacy survey, all designed as unique breakthrough surveys to provide a complete picture of galaxy and structure formation over a very broad redshift range ($0 < z < 5$).

The fellowship is initially for two years, starting fall 2004, with progress review after the first year. Milano is an international city within easy reach of most European centers. The salary will be commensurate to experience (approximate range EU 20,000 to EU 23,000 per year).

Interested individuals should send a Curriculum Vitae, list of publications and a statement of research interests. They should also arrange to have three letters of reference sent directly to the same address. To ensure full consideration, completed applications must be received by March 15, 2004. EMail submissions are strongly encouraged. Informal inquiries on the job may be made to Dr. Angela Iovino (iovino@brera.mi.astro.it).

OABr IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

No. 20605

Postdoctoral Position in Theoretical Astrophysics

WASHINGTON STATE UNIVERSITY

1245 Webster

Dept. Physics - 2814

Pullman, WA 99164-2814

USA

Tel: 509-335-2414

FAX: 509-335-7816

URL1: <http://www.physics.wsu.edu/>

Email Submission Address: george@georgelake.org

Email Inquiries: george@georgelake.org

Attention: George Lake, William Band Professor of Physics

Applications are invited for Postdoctoral Research Associate positions at WSU in computational modeling of large-scale structure, galaxy clusters and galaxy formation. We are also interested in candidates who will develop next generation visualization techniques for N-body simulations and those who want to apply the techniques to new fields. We are recruiting for a biological modeling group as well.

Former group members have advanced the state of the simulation art and made fundamental discoveries such as “galaxy harassment” and “the small scale dark matter crisis”. Their track record of securing faculty positions at major research universities is exceptional. The WSU shop will play a leading role in the Whole N-Chilada Consortium. There will be extensive interaction and exchange with the groups spawned from the original N-body shop. We will build a large cluster and an immersive environment at WSU. Our group enjoys “friendly access” at supercomputer centers, using over 100,000 CPU hrs/yr.

An early starting date is preferred, but we expect an arrival prior to September 2004. The appointment is for two years with a possible third year based on performance and funding availability. To apply, please submit a CV, a statement of research interests, and have three letters of reference sent. Applications will be accepted until all the positions are filled, but apply by March 1, 2004, to insure full consideration.
AAE/EOE

No. 20603

Research Scientist positions with GLAST Large Area Telescope Project

STANFORD UNIVERSITY

Department of Physics

Varian Bldg. Rm. 162

Stanford, CA 94305-4060

US

Tel:

URL1: <http://www-glast.stanford.edu/>

Attention: Ms. Lucy Zhou

Stanford University is seeking outstanding scientists for staff positions with the Gamma-ray Large Area Space Telescope (GLAST) project. GLAST is the next major high-energy observatory that will be launched by NASA in early 2007 and will carry out observations for a minimum of 5 years. Stanford University is the lead institution of an international collaboration building the Large Area Telescope (LAT), the primary instrument on GLAST. Science investigations will include studies of Galactic and extragalactic sources, of high-energy bursts, of Galactic and extragalactic diffuse emission, and of the nature of unidentified sources. The LAT Collaboration is responsible for the production of source catalogs during various phases of the mission. The successful applicant(s) will contribute to development of science data processing and analysis tools and will join the LAT collaboration's science investigation. Specifically, the incumbent(s) will engage in active research on the gamma-ray astrophysics of the interstellar medium and development of tools for production of the LAT source catalog.

The appointment(s) will be at the Senior Research Scientist or Research Associate level, depending on experience, in the W. W. Hansen Experimental Physics Laboratory. Research experience in astrophysics and in one or more of the research areas mentioned above is extremely desirable, particularly in the gamma-ray astrophysics of the interstellar medium and gamma-ray source detection methods. A PhD in astronomy or physics is required. The application deadline is May 1, 2004. Stanford University is committed to equal opportunity through affirmative action in employment and we are especially eager to identify minority persons and women with appropriate qualifications.

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. 20622

Senior Research Astronomer

AUSTRALIA TELESCOPE NATIONAL FACILITY, CSIRO

Tel:

URL1: <http://www.atnf.csiro.au>

URL2: <http://www.csiro.au/careers>

(Submission Address)

Email Inquiries: Lister.Staveley-Smith@csiro.au

Attention: *Dr Lister Staveley-Smith, Head of Astrophysics*

Applications are invited for a Senior Research Astronomer position in the ATNF Astrophysics group. The appointment will initially be for 5 years, with a possible indefinite extension. The commencement annual salary will be in the range A\$72K to A\$97K plus superannuation and other benefits. For exceptional candidates, a more senior appointment may be considered. The appointee will engage in astronomical research at the highest level, will participate in the operating of the ATNF, and will be prepared to take a leadership role in strategic areas important to the future of radio astronomy in Australia.

The ATNF is a Division of CSIRO and is Australia's premier radio astronomical facility. Its Sydney Headquarters are at the Radiophysics Laboratory, and it operates the Parkes 64m telescope, the Narrabri Compact Array and the Mopra 22m telescope near Coonabarabran. It also supports radio astronomy activities at NASA's Tidbinbilla tracking station at Tidbinbilla, near Canberra. The division has 135 staff and an annual operating budget of A\$18 million. The Compact Array has six 22m antennas on a 6km east-west baseline with a 214m north-south spur and operates in six bands between 20cm and 3mm. The 12 and 3mm bands are recent additions and offer new scientific opportunities. Instruments on the Parkes telescope include a 13-beam multibeam receiver operating in the 20cm band, primarily for Pulsar and HI surveys. A dual-frequency 10/50cm receiver with a wideband correlator have just been commissioned and a 5cm 7-beam receiver is under development. With other Australian and overseas antennas, the ATNF telescopes operate as a VLBI array which uses the broad-band S2 recording system. There is significant strategic research in future instrumentation and the ATNF is actively participating in the Low-Frequency Array (LOFAR) and the Square Kilometre Array (SKA) projects. In addition to technological and scientific engagement, Australia is a strong candidate host country for both these instruments. The Headquarters site is shared with CSIRO Information and Communication Technologies (ICT) Centre, and with the Anglo-Australian Observatory which operates the 4m Anglo-Australian and 1.2m Schmidt optical telescopes near Coonabarabran.

For further details on the position and how to apply visit <http://www.csiro.au/careers> job reference AT04/1. For further information on the ATNF, visit <http://www.atnf.csiro.au> and on the position, please contact Dr Lister Staveley-Smith, email: Lister.Staveley-Smith@csiro.au . Closing date for applications is 31 March 2004.

No. 20606

Faculty Position in Astrophysics

PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE

Vicuña Mackenna 4860

Casilla 306

CHILE

Tel: 56-2-3544940

FAX: 56-2-3544948

URL1: <http://astro.puc.cl>

(Departmental Web page)

Email Submission Address: job@astro.puc.cl

Email Inquiries: hquintana@astro.puc.cl

Attention: *H. Quintana, Professor*

The Faculty of Physics at Pontificia Universidad Católica de Chile offers a new position in the Astronomy Department at the associate or assistant professor level, available as early as September 2004. The requirements are a Ph.D. and a demonstrated ability and commitment to excellence in independent research and teaching. The successful candidate is expected to join the research and teaching activities of the Department and to strongly interact with students. Presently, the Department includes nine faculty and several post-docs doing research in areas of observational and theoretical cosmology, extragalactic and stellar astrophysics. We would like to develop a new group in areas related to mm-radio astronomy and the selected candidate is expected to start this group. Therefore, administration experience is an advantage. Even though high priority will be given to scientists with mm-radio backgrounds, applicants from all areas of astrophysics are encouraged to apply. The successful applicant will have access to the 10% (assigned to Astronomers based in Chile) of all the telescope time in Chile, including VLT, Gemini, Magellan, and ALMA, and other radio telescopes. Teaching duties are in astronomy and physics, at the undergraduate and graduate levels. Preference will be given to candidates able to teach in Spanish within six months. Applicants should send a curriculum vitae and a description of research and teaching interests before 31 March 2004, preferably by e-mail. However, applications will be considered until the position is filled. In addition, three letters of recommendation should be sent directly to Prof. H. Quintana.

No. 20607

Optical Engineer

UNIVERSITY OF DURHAM

University Office

Old Shire Hall

Durham, County Durham DH1 3HP

United Kingdom

Tel:

URL1: <http://aig-www.dur.ac.uk>

(Group Web Page)

URL2: <http://www.dur.ac.uk>

(University Web Page)

Email Inquiries: d.j.robertson@durham.ac.uk

Attention: Personnel Department

The Astronomical Instrumentation Group (AIG) is one of the largest UK university groups working on optical/IR instrumentation for ground-based telescopes with a complement of more than 30 staff. Activities of the Group includes both research and development of techniques for future instrumentation as well as the design and construction of facility class instruments for major international observatories.

The Group are currently expanding their activities into new facilities that will be situated in the Netpark Research Institute (www.uknetpark.net) some 8 miles south of the University's science site in Durham. These positions will be based at either the Netpark Research Institute or in the Department of Physics as the work demands.

There is a vacancy for a "hands on" optical engineer to work on the research and development of image slicing technologies for use in astronomy and other areas. The ideal candidate will have a good grounding in optical sciences, a good working knowledge of one of the major optical design programmes (e.g. Code V, Zemax) and have experience in the specification, assembly and test of complex optical systems.

In addition one or more of the following skills would be of advantage: optical fabrication, precision diamond machining, optical metrology, stray light analysis.

A good degree qualification with a strong optical sciences theme is essential, a PhD in an optical sciences field would be desirable.

The position is funded under the EU Framework 6 programme and is for an initial period of 2 years.

Salary will be on the ORS scale in the range 20,311 UK Pounds to 27,339 UK Pounds (under review) depending on qualifications and experience.

No. 20624

Post Doctoral Research Assistant

JOINT INSTITUTE FOR VLBI IN EUROPE

Postbus 2

DWINGELOO, Drenthe 7990 AA

The Netherlands

Tel: + 31 - 521 595100

FAX: + 31- 521 596539

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

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

Email Submission Address: personnel@astron.nl

Email Inquiries: langevelde@jive.nl

Attention: Ms. D. Verweij

THE JOINT INSTITUTE FOR VLBI IN EUROPE (JIVE)

is seeking candidates for a fixed-term appointment as a

POST-DOCTORAL RESEARCH ASSISTANT in data processing techniques

to be located at JIVE, Dwingeloo, The Netherlands.

The Joint Institute for VLBI in Europe (JIVE) operates an advanced 16-station MkIV-standard VLBI data processor (correlator) to support VLBI astronomical observations made with the European VLBI Network (EVN). The EVN is often used in conjunction with the MERLIN interferometer in the UK and the Very Long Baseline Array in the US. JIVE is located in Dwingeloo, in the Netherlands, at the headquarters of ASTRON, which hosts JIVE. Further information regarding JIVE and the EVN can be obtained from www.jive.nl and www.evlbi.org.

We invite applications for a JIVE Postdoc position becoming available in March 2004. The appointee is expected to develop and test algorithms that enhance the data product from the correlator. These could include: A-priori phase and amplitude calibration, including phase cal detection Ionospheric calibration based on GPS measurements and models. Wide field imaging, including cross and self-calibration

The post-doc will work on the RadioNet project which has received research funding from the European Community's Sixth Framework Programme. He or she can spend up to 25% of his/her time on scientific research.

The position requires a Ph.D. in astronomy, physics, geodesy or equivalent experience. Knowledge of radio interferometry is required as well as experience with data reduction software. Experience in implementing and testing data processing software and knowledge of programming languages and scripting tools are an advantage. Applicants of any nationality are eligible to apply.

The appointment is offered for one year in the first instance with the possibility of an extension up to a total of three years. The appointee will be in the formal employ of the Netherlands Organization for Scientific Research (NWO) with a minimum gross salary of 36100 euro per annum, plus expenses. The appointment may be made at a higher level depending on age and experience. Relocation expenses are provided.

Please send your application to: Ms D. Verweij Joint Institute for VLBI in Europe Postbus 2 7990 AA Dwingeloo The Netherlands

Applications should include a CV and list of publications, together with three letters of reference, which may be sent separately. All application material should arrive by March 15 2004. Further information can be obtained from Dr. Huib van Langevelde (langevelde@jive.nl, 521-596515).

No. 20621

**Postdoctoral position in nulling coronagraphy
SUBARU TELESCOPE**

Tel:

Email Inquiries: guyon@naoj.org, ridgway@noao.edu

Attention: guyon@naoj.org

The JPL-funded Pupil Remapping Coronagraph (PRC) group is looking for applicants for a 2-year postdoctoral position in Subaru Telescope, Hilo, Hawaii, starting in early to mid 2004.

The PRC (also called PIAA coronagraph - Guyon, A&A, 2003) uses a lossless apodization technique to produce a high contrast PSF suitable for high contrast imaging. It could make it possible to detect Earth-size planets around nearby stars with a 2m optical telescope, and is therefore a candidate for the Terrestrial Planet Finder (NASA) mission.

A laboratory demonstration of this technique will be carried out in the Subaru Telescope building, in Hilo, Hawaii. Numerical simulations, as well as a detailed performance estimation (for the TPF mission) will also be done.

The appointee is expected to actively participate in the laboratory experiment and performance estimation of this coronagraph. The appointee will also be eligible to apply for Subaru Telescope observing time for his/her personal research. Scientific collaborations with Subaru Telescope staff on research subjects related to exoplanets is encouraged.

Applicants should have a PhD in astronomy, physics, optics or related field before starting.

For more informations, feel free to contact Stephen Ridgway (ridgway@noao.edu) or Olivier Guyon (guyon@naoj.org). To apply for this job, send a curriculum vitae, statement of experience and research interests, and the contact information for three references to Olivier Guyon by email (guyon@naoj.org) by March 2nd.

No. 20600
Visitor in Computational Astrophysics
SAINT MARY'S UNIVERSITY
Saint Mary's University
960 Robie St.
Halifax, Nova Scotia B3H 3C3
Canada
Tel: 902-420-5439
FAX: 902-496-8218
URL1: <http://www.ica.smu.ca>
(ICA Web Site)
URL2: <http://www.halifaxinfo.ca>
(Halifax, Nova Scotia Web site)
Email Submission Address: bdeupree@ap.stmarys.ca
Email Inquiries: bdeupree@ap.stmarys.ca

Attention: Dr. Robert Deupree, Director

Long-term Visitor Program c/o Robert Deupree, Director The Institute for Computational Astrophysics Department of Astronomy and Physics Saint Mary's University Halifax, NS B3H 3C3 CANADA The Institute for Computational Astrophysics (ICA) announces a program for long-term visitors who would spend a few months in Halifax working on a project in any area of computational astrophysics. Funds exist for a modest stipend (e.g., sabbatical leave top-up salary) as well as round-trip airfare to Halifax. Full-time ICA faculty include Robert Deupree (Director, stellar interiors), David Clarke (MHD), David Guenther (stellar seismology), Joseph Hahn (planetary dynamics), and Ian Short (stellar atmospheres). Two research associates and two graduate students are presently working with ICA faculty. ICA computational facilities include a recently installed 32(soonest to be 48)-processor Beowulf and a ten-processor SMP . Members of the ICA seamlessly access more substantial resources located elsewhere through a 1 gigabit link. If a currently proposed regional computing capability is funded, extensive shared memory and Beowulf systems will be available by the fall of 2004 and a high quality data visualization centre at Saint Mary's available a year later. Halifax has a population of 350,000 people and is the largest metropolitan area in Atlantic Canada. More information can be found about Halifax and the ICA at the web sites listed . Interested individuals should send their CV and a short summary of their proposed research to the Director by mail or e-mail. While applications may be submitted at any time, potential visitors for the summer of 2004 should have submitted an application by March 31, 2004.

No. 20609
Software Engineer/Programmable Logic Developer
UNIVERSITY OF DURHAM
University Office
Old Shire Hall
Durham, County Durham DH1 3HP
United Kingdom
Tel:
URL1: <http://aig-www.dur.ac.uk>
(Group Page)
URL2: <http://www.dur.ac.uk>
(University Page)
Email Inquiries: d.j.robertson@durham.ac.uk

Attention: Personnel Department

This position relates to the development of a new real-time control system for future adaptive optics (AO) systems. The project is in collaboration with the European Southern Observatory (ESO) and is aimed at developing their next generation of AO control system to support future 8m instrumentation activities as well as being an important development for the next generation of Extremely Large Telescope AO systems.

Essential skills for the post are experience with the use of programmable logic devices and good working knowledge of one or more standard software languages for general purpose and real-time programming. In addition desirable skills will include a basic grounding in one or more of the following: astronomical adaptive optics, VHDL for programming FPGAs, programmable logic for hardware acceleration.

A good degree qualification with a strong electronics/software engineering theme is essential, a PhD in a related field would be desirable.

The position is jointly funded by the UK Particle Physics and Astronomy Research Council (PPARC) and the EU Framework 6 Programme and is for an initial period of 2 years.

Salary will be on re RA1A scale in the range 20,311 UK Pounds to 27,339 UK Pounds (under review) depending on qualifications and experience.

No. 20629

Post-doctoral Research Position in Astronomical Instrumentation

UNIVERSITY OF OXFORD

Denys Wilkinson Building

Keble Road

UK

Tel:

FAX: +44 1865 273390

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

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

Email Inquiries: n.thattel@physics.ox.ac.uk

Attention: Mrs L Walker

Post-doctoral research position in astronomical instrumentation

The Department of Physics invites applications for a postdoctoral research position in astronomical instrumentation, with effect from 1st April 2004, or as soon as possible thereafter. The appointee will be expected to join a dedicated team engaged in the design, fabrication, integration and testing and scientific exploitation of a unique integral field spectrograph, SWIFT, being built at Oxford. We particularly welcome applications from candidates with a proven record of research in any of the following areas: astronomical instrumentation; integral field spectroscopy; real-time instrument control; IFU data reduction and analysis. The applicant should be a national of a European Union member state or associated state. The full list of member and associated states can be found at <http://europa.eu.int/comm/research/ispc/countries.html> . We particularly encourage applications from

women. Further particulars of the post and more information on the group's research programme may be obtained from <http://www-astro.physics.ox.ac.uk/> The Oxford instrumentation group is growing rapidly, with a strong focus on integral field and multi-object spectroscopy. Besides SWIFT, we are also playing a key role in KMOS, the second generation deployable IFU near-IR multi-object spectrograph for the ESO-VLT. Other on-going projects include the FMOS instrument for SUBARU, and a design study for MUSE, a second generation VLT instrument. The instrumentation group collaborates closely with the observational astrophysics and theoretical cosmology groups within the sub-department of Astrophysics.

Appointments will be made for a period of four years. The salary will be according to the pay scale stipulated by the European Commission, which is £ 29,621 per annum at present exchange rates. In addition, there will be a mobility allowance for applicants moving to the United Kingdom. Applicants should send a curriculum vitae and ask three referees to write by the closing date of 15th March 2004 to:

Mrs L Walker Astrophysics Denys Wilkinson Building Keble Road Oxford OX1 3RH United Kingdom
sec@astro.ox.ac.uk Fax: +44 (0)1865 273390 Please quote reference DB04003 in all correspondence.

Please contact Prof. Roger Davies (rld@astro.ox.ac.uk) or Dr. Niranjan Thatte (n.thattel@physics.ox.ac.uk) for any queries related to this post.

No. 20611

Postdoctoral Research Fellowship in Star Formation

UNIVERSITY OF ST ANDREWS

College Gate

North Street

St Andrews, Fife KY16 9AJ

United Kingdom

Tel: 44 (0)1334 462571

FAX: 44 (0)1334 462570

URL1: <http://www.st-andrews.ac.uk/hr/>

URL2: <http://star-www.st-and.ac.uk/astronomy/Welcome.html>

Email Inquiries: iab1@st-and.ac.uk

Attention: Human Resources, ref: ME085/03

UNIVERSITY OF ST ANDREWS

SCHOOL OF PHYSICS AND ASTRONOMY

RESEARCH FELLOW

SALARY: £18,265 - £27,339 pa

The Astronomy group in the School of Physics and Astronomy at the University of St Andrews invites applications for a postdoctoral position in star formation. This 3 year post is available from 1 May 2004, or as soon as possible thereafter. We are particularly interested in candidates with experience in one or more of the following areas: star formation and feedback from young stars, stellar winds, HII regions, computational hydrodynamics and radiative transfer. You must have, or about to receive, a PhD and a demonstrated ability to pursue independent research.

Please quote ref: ME085/03

Application forms and further particulars are available from <http://www.st-andrews.ac.uk/hr/> or from Human Resources, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 44 (0)1334 462571, by fax 44 (0)1334 462570 or by e-mail Jobline@st-andrews.ac.uk). Informal enquiries may be addressed to Ian Bonnell (iab1@st-andrews.ac.uk). Applications including curriculum vitae, publications list, statement of research achievements and interests, and letters of reference from three referees familiar with your research should arrive by the closing date: 1 March 2004.

We regret that applications cannot be made by e-mail.

The University is committed to equality of opportunity.

No. 20599

Postdoctoral Position in Theoretical Stellar Astrophysics

UNIVERSITY OF OXFORD

University of Oxford

Keble Road

Oxford, Oxfordshire OX1 3RH

United Kingdom

Tel: +44 1865 273302

FAX: +44 1865 273390

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

(Oxford Astrophysics)

URL2: <http://www-astro.physics.ox.ac.uk/~podsi>

(Homepage: Ph. Podsiadlowski)

Email Submission Address: s.blackshaw1@physics.ox.ac.uk

Email Inquiries: podsi@astro.ox.ac.uk

Attention: Ms Sue Blackshaw, Departmental Secretary

Applications are invited for a Postdoctoral Research position at the University of Oxford to work with Dr Philipp Podsiadlowski in the general area of theoretical stellar astrophysics, and specifically on X-ray binaries and related objects. For this position we are particularly looking for candidates with a recent PhD with experience in stellar evolution theory, stellar hydrodynamics or computational astrophysics. One of the major objectives of the project is to develop an efficient, but fully realistic binary evolution code that can be combined with a binary population synthesis approach to study X-ray binaries of various types and the origin of millisecond pulsars. In addition to this project, the successful candidate may pursue his own independent research.

The post-holder will have the opportunity to engage in graduate-level teaching for up to 3 hours per week during term and will be offered an initial two-year appointment, extendable to three years, from July 1, 2004 (or a later agreed date). The starting salary is from £18,265 - £27,339 pa (pay award pending) depending on skills and experience. Applications quoting reference DB04000 should be sent to the address below and include a full CV, a publication list, a summary of current research interests and the names and addresses of three referees familiar with the candidate.

For further information about Oxford Astrophysics please see www-astro.physics.ox.ac.uk/ and www-astro.physics.ox.ac.uk/~podsi. Informal enquiries may be addressed to Dr Philipp Podsiadlowski

(pods@astro.ox.ac.uk).

Applications should arrive no later than 2 March 2004 (although later applications may be considered until the position is filled).

No. 20601

Star and planet formation, Structure of protoplanetary disks

MAX-PLANCK-INSTITUTE FOR ASTRONOMY

Koenigstuhl 17

Germany

Tel: 0049 6221 528200

FAX: 0049 6221 528373

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

Email Submission Address: janssen@mpia.de

Email Inquiries: henning@mpia.de

Attention: Personnel Department, Ingrid Apfel (01-04)

A position for a Ph.D. student is available in the department of Star and Planet Formation at the Max Planck Institute for Astronomy in Heidelberg, Germany. Research field: "Structure of protoplanetary disks". Supervisor: Prof. Dr. Thomas Henning The position will start as of now. It is initially for 2 years with a possible extension to a total of 3 years. Protoplanetary disks form the bridge between the star formation process and the later stages of planet formation. Statistical infrared and millimeter studies resulted in a better knowledge of disk frequency and mass. However, we lack a fundamental understanding of the physical structure and diversity of such disks. We want to change this situation by interferometric and adaptive optics assisted observations with the very large telescopes of the European Southern Observatory, supplemented by mid-infrared and sub-millimeter data. Part of these data will be available through guaranteed time observations. The project will include an adequate modelling of the disks, using radiative transfer codes developed in the institute.

Applicants should hold the equivalent of an MSc in astronomy or physics (Dipl.-Phys.) and ideally should have first experiences with astronomical research. The position is available on the German BAT federal public service scale (BAT IIa/2) or according to the guidelines for scholarship holders in the MPG.

Interested students are invited to send an application including a curriculum vitae, copies of University de-grees/records, and two letters of recommendation to the adress above or electronically by e-mail to Maria Janssen-Bennynck (janssen@mpia.de) Informal inquiries can be sent to the above email address or may be directed to Prof. Dr. Thomas Henning (phone +49 6221 528200, henning@mpia.de) or to Ms. Ingrid Apfel (Personnel Department, phone +49-6221-528-283, apfel@mpia.de). The Max Planck Society is an equal opportunity employer; in particular, disabled persons are encouraged to apply. The Max Planck Society as the employer aims at increasing the number of female staff members in fields where underrepresented. Therefore, women are particularly encouraged to apply.

Applications received before March, 15, 2004 will receive fullest consideration. Later applications will be considered on the basis of availability. This position will be open until a suitable candidate is found.

No. 20641

Postdoctoral Research Fellowship in Active Galactic Nuclei and Related Objects

UNIVERSITY OF MARYLAND

**Space Sciences Building
University of Maryland
College Park, MD 20742
U.S.A.**

Tel: (301) 405 1519

FAX: (301) 314 9067

Email Submission Address: wilson@astro.umd.edu

Email Inquiries: wilson@astro.umd.edu

Attention: Andrew S. Wilson, Professor

Applications are invited for a postdoctoral position involving observational or theoretical work in the general area of active galactic nuclei (AGN) and related objects (such as cooling flows or ULIRGs). The preferred observational bands are X-rays (using Chandra and XMM), optical/infrared or radio line (VLBI work on water vapor masers). Familiarity with both the relevant physics and software analysis packages is essential. The University of Maryland has recently acquired guaranteed time on the Kitt Peak 4m (Mayall) telescope and projects involving this telescope are welcome. Willingness to work with graduate students is desirable.

The University of Maryland is close to many major institutes in the Baltimore-Washington area with astronomical departments or programs, including the Space Telescope Science Institute, Johns Hopkins University, NASA Goddard Space Flight Center, Naval Research Laboratory, and the U.S. Naval Observatory. The National Radio Astronomy Observatory and University of Virginia, in Charlottesville, VA, are about 2 hours drive away. Excellent possibilities exist for interaction with the many astronomers working in extragalactic astronomy, including the X-ray astronomy group at the nearby Goddard Space Flight Center.

This research fellowship will be for one year initially and is renewable annually for up to three more years contingent on performance and funding. Applicants must have a Ph. D. degree in astronomy or physics and should mail a curriculum vitae, a description of their research plans within the range of areas described above, and should arrange for three letters of recommendation to be sent. Applications received before March 31 2004 will be assured of full consideration. Salary is negotiable. EOE/AEE.

No. 20655

Predocorral Fellowship

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

60 Garden St.

MS 47

Cambridge, MA 02138

USA

Tel:

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

(Predocorral Fellowship application)

Email Submission Address: predoc@cfa.harvard.edu

Email Inquiries: predoc@cfa.harvard.edu

Attention: Secretary, Predocorral Fellowship Committee

The Smithsonian Astrophysical Observatory announces the availability of predoctoral fellowships beginning in July 2004, designed to allow students from other institutions throughout the world to do their thesis research at SAO. A wide variety of research projects may be proposed, with about 200 SAO scientific staff available as research advisors. Applicants should contact directly Smithsonian scientists in their areas of interest to discuss possible research topics. Applicants must be ready to begin dissertation research at the time of award. Fellowships are awarded for one year at a time with possible renewal up to three years, contingent upon funding. Stipends will be \$24,600 for the coming year. Applications are due by 15 April 2004. Electronic or fax submissions will not be accepted.

The CfA is an Equal Opportunity/Affirmative Action Employer where all qualified applicants receive consideration for employment without regard to race, creed, sex or national origin.

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aas@aas.org