



January 2002

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

Washington, DC Job Center

Special Events of Note at the AAS Meeting in Washington

Enhancing the Postdoctoral Experience

A special presentation will be made by the President of the Carnegie Institution of Washington, Dr. Maxine Singer on the recommendations of a National Academy Committee on Enhancing the Postdoctoral Experience. The presentation is on Monday, January 7. Following Dr. Singer's presentation will be a panel discussion and roundtable discussion about the postdoctoral experience for astronomers and how various organizations are acting on the recommendations of Dr. Singer's committee.

Graduate Student Reception

A special reception for graduate students and their potential employers will take place at the Washington, DC AAS meeting on Monday, January 7 from 6:30 pm to 7:30 pm. The Committee on Employment is sponsoring this event, which is structured to serve as a networking opportunity for graduate students and as an opportunity to meet potential future employers.

Graduate students who are interested in attending should send an email to kmarvel@aas.org to receive an entrance coupon in their registration packet. There is no charge for the reception. Light snacks and soda will be provided. This is a great opportunity meet employers and investigate possible post-graduation employment opportunities.

Andrea Schweitzer, Chair AAS Committee on Employment

The next Job Center will be held during the [199th Meeting of the American Astronomical Society](#) at the Hilton Washington Towers, 1919 Connecticut Avenue N.W. , Washington, DC, 6-10 January 2002.

Job Hunting, An Introduction (AAS Career Workshop)

J. Giesler (AGU)

The AAS is again sponsoring a career workshop for Astronomers seeking employment. The workshop will cover preparation for and current trends in the current job market. Today, astronomers have more opportunities available and placement skills and career information are essential to compete strongly in the market. The workshop will offer advice on resources for jobs in astronomy, statistics of employment and education, networking strategies, resume writing tips, and information on how to prepare for an interview. A diverse range of career paths will be presented.

The workshop will consist of two approximately three-hour sessions. The first (9 am-12 pm) will be on job-search skills, market trends, and resources. After a lunch break, the second session (1 pm-4 pm) will be for those who would like to stay and receive personalized information on individual resumes, job search problems, and interview questions and practice.

This workshop will be presented by Jennifer Giesler of the American Geophysical Union. The cost of the workshop is \$15.00 which includes a packet of resource materials supporting the workshop presentation. Please send your request for attendance by 1 December 2001 to the Executive Office along with a check, payable to the AAS, for the fee. Credit cards will not be accepted. Preference will be given to AAS members in the event of a large number of registrants.

For further information, contact the AAS Executive Office, 202-328-2010, dawn@aas.org.

Employers:

If you are an employer who plans to conduct interviews at the upcoming meeting, please let us know. Send your name, institution and position for which you will be interviewing to jobs@aas.org.

Resume books of Job Seekers attending the meeting will be available to employers who register at the Job Center during its published operating hours. In Washington, DC, the Job Center is open from Monday to Wednesday from 9:30 a.m. to 5:00 p.m. and on Thursday from 9:30 am til noon.

Job Seekers:

If you are planning to attend the Job Center, the deadline for receipt of resumes is 21 December 2000. If you miss the deadline please bring three copies of your resume and a completed [cover sheet](#) with you to the Job Center. The resume coversheet is available online at <http://www.aas.org/forms/resume.pdf> or in the paper November and December *Job Registers*. We will also fax the cover sheet upon request.

The following employess have notified the Executive Office that they will be available for interviews.

	UNIVERSITIES SPACE RESEARCH ASSOCIATION	No. 12276		
Virginia Trimble	UNIVERSITY OF CALIFORNIA, IRVINE	No. 12290		
Jim Hesser	HERZBERG INSTITUTE OF ASTROPHYSICS	No. 12355		
Karen Kwitter and Jay Pasachoff	WILLIAMS COLLEGE	No. 12430		
David Hough	TRINITY UNIVERSITY	No. 12404		
Jon Morse	UNIVERSITY OF COLORADO	No. 12312		
Lisa Storrie-Lombardi and Lee Armus	CALTECH	No. 12247		
James E. Neff	COLLEGE OF CHARLESTON	No. 12240	No. 12335	No. 12345
Dr. Harvey Richer	UNIVERSITY OF BRITISH COLUMBIA	No. 12489		
Eric Sandquist	SAN DIEGO STATE UNIVERSITY	No. 12279		
Ray Jayawardhana	UNIVERSITY OF MICHIGAN	No. 12260		
Mike A'Hearn	UNIVERSITY OF MARYLAND	No. 12518		
Rob Kennicutt	UNIVERSITY OF ARIZONA	No. 12402		
Edward Murphy	THE UNIVERSITY OF VIRGINIA	No. 12389		
Dr. Donald Walter	SOUTH CAROLINA STATE UNIVERSITY	No. 12513		
Jeff Linsky	JILA/UNIVERSITY OF COLORADO	No. 12153		
Dr. wal Sanders and Linda Sparke	UNIVERSITY OF WISCONSIN-MADISON	No. 12476		
Tom English	GARDNER-WEBB UNIVERSITY	No. 12407		
Hsien Shang	INSTITUTE OF ASTRONOMY AND ASTROPHYSICS		Postdoctoral and Staff Positions	
Dr. Robert Schommer	NOAO		NOAO/US Gemini Postdoctoral Fellowship	
Dr. Alan Wan	LAWRENCE LIVERMORE NATIONAL LABORATORY/A DIVISION		Design and Code Physicist Positions	
Richard Harshman	NATIONAL RESEARCH COUNCIL		Independent Research	

Editorial - January 2002

Enhancing the Postdoctoral Experience for Scientists and Engineers

The National Academies
Cecil and Ida Green Building
2001 Wisconsin Ave., N.W.

**Monday, Sept. 11 at 10 am (EASTERN)
Room 104**

WEBCAST HELD 11 September

If you were unable to attend the briefing, a full text version of the guide will be available at COSEPUP's Webguide to Enhancing the Postdoctoral Experience for Scientists and Engineers at www.nationalacademies.org/postdocs beginning at 12 noon on September 11th. This Webguide contains resources and examples for all parties in the postdoctoral experience.

Our next event will be a day-long convocation at the National Academies on 2 March 2001 for postdocs, postdoc advisers, administrators, funding organizations, disciplinary societies, and distinguished researchers to discuss the postdoctoral experience. See the Webguide for more information on the convocation.

You may purchase copies of the report by contacting National Academy Press at 888-624-8373 or 202-334-3313 or online at www.nap.edu.

Questions on this project can be directed to Dr. Deborah Stine, Associate Director, COSEPUP and Project Director. She can be reached at 202-334-3239 or dstine@nas.edu. Questions regarding attending the public briefing should be directed to Rebecca Burka at 202-334-2455 or rburka@nas.edu.

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Recommended Postdoctoral Offer Decision Deadline, 15 February

To ensure an orderly and fair postdoctoral appointment procedure, the AAS Council recommends that the deadline for decisions on postdoctoral offers will not be required earlier than 15 February of a given year.

AIP Resume Posting Service

The Career Services Division of the American Institute of Physics has a Resume Posting Service on the Internet. This service is free of charge to physicists seeking employment.

Resumes are entered into a searchable database which is available to employers around the world. The identity of the job seeker and a complete resume will only be released to employers who contact AIP offices directly.

The site is located at: http://www.aip.org/resume_post

For more information contact:

Edwin Goldin
Manager, Career Services Division
American Institute of Physics
One Physics Ellipse
College, Park, MD 20740-3843
Tel: 301-209-3190
FAX: 301-209-0841
Email: cpp@aip.org

[AAS Career Services Listing](#)

Publication Policy for the *AAS Job Register*

[\[Deadline\]](#) [\[Rate\]](#) [\[Word Count\]](#) [\[Requirements\]](#) [\[Submission\]](#) [\[Circulation\]](#) [\[Member Notification\]](#)

Deadline

The deadline for submission of job announcements is the 15th of each month for publication in the subsequent issue.

15 January - Deadline for the February *Job Register*

15 February - Deadline for the March *Job Register*

Rate Sheet

There is a publication charge of \$109 per job announcement, per issue. The maximum announcement length is 250 words. We reserve the right to edit announcements that exceed this maximum.

Employers must note how they will pay for their announcement at the time of submission. We accept payment by:

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

Checks and purchase orders should be sent and payable to:

American Astronomical Society
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.

If your institution requires a purchase order for billing, we must have the purchase order number no later than fifteen (15) days after the job is submitted for publication. We will invoice for job announcements at the end of each month.

Reduction of the \$109 fee will be considered for part-time positions. Requests should be sent to jobs@aaas.org and are handled on a case-by-case basis.

Announcement Requirements

Jobs will not be published without the following:

- (1) an accompanying statement assuring that the vacancy is bona fide and 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 include URLs to relevant web sites with their job announcements.

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

Please read the requirements above before submitting your job. If possible, use the [Web Submission Form](#) or send your advertisement by electronic mail to jobs@aaas.org. If electronic mail is not available, job announcements 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, 45 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://www.aas.org/JobRegister>.

Member Notification

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

Jobs from Previous Months

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

No. 12161

Researcher in Millimeter waves or other area

INSTITUTO NACIONAL DE ASTROFISICA, OPTICA, Y ELECTRONICA

Astrophysics Department

Apartado Postal 51 y 216

Mexico

FAX: +52-22-472-231

Email Submission Address: wwall@inaoep.mx, dhughes@inaoep.mx

Email Inquiries: wwall@inaoep.mx

URL: <http://www.inaoep.mx/~astrofi/ad2002.txt>

Attention: William F. Wall or David H. Hughes, Doctor

ASTROPHYSICS WITH THE LARGE MILLIMETER TELESCOPE (To see the complete version of this ad, see web page <http://www.inaoep.mx/~astrofi/ad2002.txt>)

The Instituto Nacional de Astrofísica Óptica y Electrónica (INAOE) is seeking candidates for three research positions (tenure-track level) in Astrophysics and several postdoc positions. Preference will be given to candidates with experience in millimeter-wave Observational Cosmology and/or millimeter-wavelength instrumentation and general mm-wave observing experience, including molecular cloud observations. However, candidates with expertise in other fields are also encouraged to apply.

INAOE is currently engaged in a joint collaboration with the University of Massachusetts to develop and build the Gran Telescopio Milimétrico - Large Millimeter Telescope (GTM/LMT) and its suite of instrumentation. The LMT is a single dish 50-meter telescope designed to perform at millimeter and submillimeter frequencies up to 350 GHz. Astronomers at INAOE will have significant access to the largest, most sensitive, most technologically advanced millimeter-wave telescope ever built. The LMT is currently under construction on Cerro La Negra, a high-altitude (4600m) ultra-dry site in the central Mexican state of Puebla.

In addition to the LMT, through personal collaborations and bilateral agreements, we have access to some of the largest observational facilities in the world, including telescopes in Chile, the Canary Islands, Australia, and Hawaii.

Salaries are competitive by international standards. Please contact Dr. Miguel Chavez (mchavez@inaoep.mx) for details.

Applicants must send their full curriculum vitae, list of publications, and arrange for two reference letters to be sent to the following address Dr. William Wall and Dr. David Hughes at the above address.

No. 12214

Post Doctoral Appointment-Clusters of Galaxies

OHIO UNIVERSITY

Dept. of Physics & Astronomy

251B Clippinger Labs

Athens, Ohio 45701-2979

Tel: 740-593-1718

FAX: 740-593-0433

Email Submission Address: mcnamara@helios.phy.ohiou.edu

Email Inquiries: mcnamara@helios.phy.ohiou.edu

URL: <http://www.phy.ohiou.edu/>

Attention: Prof. Brian R. McNamara,

Applications are invited for a postdoctoral appointment in astrophysics in the Department of Physics & Astronomy at the Ohio University. The research, which will be done in collaboration with Brian McNamara, concerns the gathering and analysis of X-ray, Optical, and Radio observations of galaxy clusters. Preference will be given to candidates with experience analyzing Chandra X-ray Observatory data, Hubble Space Telescope and ground-based optical observations, and radio observations with the Very Large Array. The appointment is for two years, with a likely extension to three years. The Astrophysics group at Ohio University

consists of three faculty members, Joseph Shields, Thomas Statler, and Brian McNamara, five graduate students, and five undergraduates. The group's research interests include galactic dynamics, the properties of emission-line galaxies, the search for galactic black holes, and clusters of galaxies.

Candidates should possess a Ph.D. in astronomy or related field. The application should include a curriculum vitae, a publication list, and a statement of research interests. The applicant should arrange for three letters of reference to be sent to McNamara. For full consideration applications should be complete by 15 January 2002. However, applications will be considered until the position is filled. Applications may be sent by post or email to mcnamara@helios.phy.ohiou.edu. Email only ascii and/or postscript documents. AAE/EOE.

No. 12248

Faculty Position, Tenure-Track, Sub-Millimeter Array Astrophysics

INSTITUTE FOR ASTRONOMY, UNIVERSITY OF HAWAII

2680 Woodlawn Drive

Honolulu, HI 96822

Tel: 808-956-8566

FAX: 808-946-3467

Email Submission Address: kud@ifa.hawaii.edu

Email Inquiries: kud@ifa.hawaii.edu

URL: www.ifa.hawaii.edu

Attention: Dr. Rolf Kudritzki, Director

The Institute for Astronomy (IfA) at the University of Hawai'i invites applications for a state-funded, tenure-track faculty position (pending position approval). The appointment could be at the Assistant, Associate, or Full Astronomer level depending on the qualifications and experience of the candidate. Preference will be given to candidates with the expertise to exploit the Sub-Millimeter Array telescope (SMA) on Mauna Kea in pursuit of science goals related to NASA's "Origins" themes. The University of Hawai'i has 15% of the time on the SMA, scheduled to be in operation in early 2002. The individual chosen is expected to conduct a first-class research program in astronomy, teach one undergraduate or graduate course per year and participate in the academic and scientific life of the IfA. Minimum Qualifications: Ph.D. in astronomy or physics, demonstrated research excellence and teaching ability. Additionally, at the Associate level: four years at the Assistant level or equivalent; at the Astronomer level: four years experience at the Associate level or equivalent. The expected starting date is July 2002. The salary will be commensurate with qualifications and experience. To apply applicants should submit a curriculum vitae, bibliography, and a description of research interests to Dr. Rolf Kudritzki, at the above address. Applicants should arrange for three letters of recommendation to be sent to the above address. Closing date: 15 January 2002. For additional information, please see our website: www.ifa.hawaii.edu, call Dr. Kudritzki at 808-956-8566 (FAX 808-946-3467) or send email to kud@ifa.hawaii.edu. AAE/EOE.

No. 12286

Full professor, Computational/Theoretical Astrophysics

SAINT MARY'S UNIVERSITY TIER I CANADA RESEARCH CHAIR

Department of Astronomy and Physics

Institute for Computational Astrophysics

Halifax, NS B3H 3C3

Canada

Tel: 902-420-5830

FAX: 902-420-5141

Email Inquiries: dclarke@ap.stmarys.ca

URL: <http://www.ap.stmarys.ca>

Attention: David Clarke, Acting Director, ICA

The Department of Astronomy and Physics invites applications for a Tier I Canada Research Chair (CRC; <http://www.chairs.gc.ca>), to be awarded to a theoretical or computational astrophysicist at the full professor level with tenure. Salary is negotiable, and is not limited to the University salary scale.

In a separate advertisement, the Department is advertising the availability of two new tenure-track faculty positions in computational astrophysics, including a Tier II CRC. Together, these three positions have been created to launch a new Institute for Computational Astrophysics (ICA; <http://www.ap.stmarys.ca>) to be housed within the Department of Astronomy and Physics. The ICA will promote computational astrophysics in the broadest sense, providing a world-class intellectual environment for the new faculty, PDFs, graduate students, visitors, and the eight existing members of the Department which already includes two computational astrophysicists.

The Tier I chair holder will assume the directorship of the ICA, and will be appointed in time to participate in the selection of the two tenure-track faculty. We are seeking a dynamic, internationally recognised individual with a first-class research record and the vision and leadership skills to lead the ICA to the national and international stage. Still, it is expected that the director will be able to devote the majority of his or her time maintaining a vigorous, externally funded research programme. The teaching load of the director will be one one-term course per year, and sufficient funds to support a PDF will be provided.

Applicants should send their CV, cover letter articulating any ideas or visions they may have for the ICA, and names and addresses of four references to: Tier I Search at the above address. Applications will be accepted until 1 March 2002, or until a suitable candidate is found. CRC holders need not be Canadian Citizens or permanent residents of Canada.

For more information, please contact dclarke@ap.stmarys.ca, or visit the web sites given above. We welcome all inquiries, including those on the suitability of a specific application and/or suggestions of those who might be persuaded to apply. Saint Mary's University is committed to the principles of Employment Equity.

No. 12287

Tenure-track faculty positions, Computational Astrophysics

SAINT MARY'S UNIVERSITY

Department of Astronomy and Physics

Institute for Computational Astrophysics

Halifax, NS B3H 3C3

Canada

Tel: 902-420-5830

FAX: 902-420-5141

Email Submission Address:

Email Inquiries: dclarke@ap.stmarys.ca

URL: <http://www.ap.stmarys.ca>

Attention: David Clarke, Acting Director, ICA

The Department of Astronomy and Physics invites applications for two tenure-track faculty appointments in computational astrophysics. Salary and level of appointment will be commensurate with experience.

The successful candidates will be emerging leaders in their field, and capable of maintaining vigorous, independent, externally funded research programmes. In addition, they will participate in the daily affairs of the Department such as teaching, proposal-writing, advising students, etc. The top candidate will be awarded a Tier II Canada Research Chair (CRC; <http://www.chairs.gc.ca>) at the Assistant or Associate Professor level and a reduced teaching load (one course per term). The second candidate will be awarded a regular University faculty appointment at the Assistant Professor level.

Both new faculty will become members of the new Institute for Computational Astrophysics (ICA; <http://www.ap.stmarys.ca>) being organised within the Department. The ICA will promote computational astrophysics in the broadest sense, providing a world-class intellectual environment for the new faculty, PDFs, graduate students, visitors, and the eight existing members of the Department which already includes two computational astrophysicists.

Truly exceptional candidates may be considered for the CRC Tier I post announced separately. The Tier I chair holder will assume the directorship of the ICA, and will come with tenure and sufficient funds to support a PDF.

Applicants should send their CV, cover letter indicating why they may be particularly suited to represent their area of study in the ICA, and names and addresses of four references to Tenure-Track Faculty Search at the above address. Applications will be accepted until 29 March 2002. CRC holders need not be Canadian Citizens or permanent residents of Canada. For the regular appointment, while this advertisement is directed in the first instance to Canadian citizens and permanent residents, all qualified candidates are strongly encouraged to apply.

For more information please contact dclarke@ap.stmarys.ca, or visit the web sites given above. Saint Mary's University is committed to the principles of Employment Equity.

No. 12290

Faculty Position in Extragalactic Astronomy UNIVERSITY OF CALIFORNIA AT IRVINE Department of Physics and Astronomy Irvine, CA 92697-4575

Attention: Professor David A. Buote, Chair of the Astrophysics Search Committee

The Department of Physics and Astronomy of the University of California at Irvine invites applications for a tenure track Assistant Professor position in the general area of extragalactic astronomy, though exceptionally qualified candidates from any area of astronomy will also be considered. Candidates with either observational or theoretical experience are encouraged to apply. The appointment can begin as early as the 2002/2003 academic year. The successful candidate must possess a Ph.D. (or equivalent) and will be expected to establish a vigorous research program and participate effectively in teaching at the undergraduate and graduate levels. The Department has active research programs in star formation, galaxy formation and evolution, X-ray astronomy, wavefront sensing and adaptive optics, and particle astrophysics. Observers in the Department have access to the Lick and Keck Observatories. Candidates should send a complete curriculum vitae, bibliography, statement of research interests, and arrange to have at least three letters of recommendation submitted on their behalf to Professor David A. Buote, Chair of the Astrophysics Search Committee, at the above address.

For full consideration applications should be received before 15 January 2002. Please visit our website at:

<http://www.ps.uci.edu/physics/astro.html>.

The University of California, Irvine is an equal opportunity employer committed to excellence through diversity. AAE/EOE.

No. 12297

**NRL-NRC Postdoctoral Associate
NAVAL RESEARCH LABORATORY**

Remote Sensing Division

Code 7213

Washington, DC 20375-5320

Tel: 202-767-0292

Email Inquiries: weiler@rsd.nrl.navy.mil

Attention: Dr. Kurt W. Weiler

The Radio, Infrared, and Optical Sensors (RIOS) Branch of the NRL's Remote Sensing Division invites applications for an NRL National Research Council Associateship to begin in Fall 2002 in the area of supernova research and radio astronomy in space development. The current program is very active in the observing and interpretation of the radio emission from supernovae and supernova remnants, with related studies at optical, x-ray, and other wavelengths. The program goals are to increase existing sample sizes and to better define SN/SNR statistical and physical properties. This includes frequent new observations at multiple wavelengths, related modeling, and extension of existing data analysis and mapping software. In addition to the continuing observational program, initiatives for new instrumental capability for radio observations at low frequencies from the ground and from space are being actively pursued. A successful candidate will have the opportunity to become involved in these programs in addition to carrying out independent research in related areas. For further information visit <http://rsd-www.nrl.navy.mil/7214/weiler/> and linked sites.

Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Applicants must 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. The deadline for submission is 15 January 2001. US citizenship or a permanent residence visum is required.

Positions are generally for two years with a current annual stipend of \$55,000. Application materials can be obtained by writing to the Associateship Programs, TJ 2114, National Research Council, 2101 Constitution Ave., NW, Washington, DC 20418 (E-mail: rap@nas.edu) or from the web site <http://www.national-academies.org/rap>. For further information contact Dr. Kurt W. Weiler at the contact information listed above. AAE/EOE.

No. 12307

**Postdoctoral Fellow, Galaxy Evolution
JOHNS HOPKINS UNIVERSITY
Center for Astrophysical Sciences/Bloomberg Center**

Charles & 34th Street

Baltimore, Maryland 21218-2695

Tel: 410-516-8649

FAX: 410-516-5096

Email Submission Address: kathy@pha.jhu.edu

Email Inquiries: kathy@pha.jhu.edu

Attention: Research Position in Astrophysics/ATTN: Kathy Ziolkowski, Administrative Secretary

The GALEX science team members at the Johns Hopkins University Center for Astrophysical Sciences (Prof. T. Heckman, Prof. A. Szalay, and Dr. L. Bianchi) invite applications for Postdoctoral Fellow appointments in observational astrophysics to work as research scientist. GALEX, the Galaxy Evolution Explorer, is a NASA Small Explorer Mission to be launched in May 2002 (<http://www.srl.caltech.edu/galex/>).

Appointment is contingent on completion of Ph.D. The appointment is for one year, starting in Summer 2002, and is renewable up to three years.

The GALEX instrument is a 50-cm telescope operating in the far and near-ultraviolet (135-300 nm) with both imaging and spectroscopic capabilities. A principal scientific goal of GALEX is to map the history and probe the causes of star formation out to redshift $z=2$, during the time that most stars, elements, and galaxy disks were formed.

Applicants should propose research programs which incorporate GALEX data into their scientific investigations. Appointees will also be expected to contribute to the analysis of GALEX science data and development of science analysis tools. While specific research projects using GALEX data are encouraged, opportunities for independent research are available through the use of all of Johns Hopkins's astronomical facilities, including the Sloan Digital Sky Survey and the Apache Point Observatory 3.5-m telescope.

Applications including a brief statement of research interests, relevant work experience, curriculum vitae, and three letters of reference should reach Johns Hopkins before 31 January 2002. AAE/EOE.

No. 12308

Assistant Professor in Physics Pedagogy

BOWLING GREEN STATE UNIVERSITY

Dept. of Physics & Astronomy

Bowling Green, OH 43403

Tel: 419-372-7244

FAX: 419-372-9938

Email Inquiries: laird@tycho.bgsu.edu

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

Attention: John B. Laird, Chair

The Department of Physics and Astronomy invites qualified candidates to apply for a tenure-track position at the Assistant Professor level beginning August 2002. We seek applicants who are committed to excellence in teaching and research, and who will establish an effective research program in the field of physics pedagogy. Interaction with other research groups in the Department is encouraged. The successful candidate will play an essential role in further developing our new Master of Arts in Teaching physics program, and will also be expected to play an effective role in the interface between this Department and the undergraduate and graduate teacher training programs in the University. A Ph.D. in physics or a closely related field is required. Applicants should submit a CV including a full list of publications and grants, statements of teaching and research interests, and letters from at least three references to Dr. John B. Laird, Chair, at the above address. Applications must be postmarked by 1 February 2002. AAE/EOE.

No. 12312**COS Postdoctoral Positions****CENTER FOR ASTROPHYSICS AND SPACE ASTRONOMY, UNIVERSITY OF COLORADO****593 UCB****1255 38th Street****Boulder, CO 80309-0593****Tel: 303-492-7645****FAX: 303-492-5941****Email Submission Address: jgreen@casa.colorado.edu****Email Inquiries: jgreen@casa.colorado.edu****URL: cos.colorado.edu***Attention: Prof. James Green, COS Principal Investigator*

The Center for Astrophysics and Space Astronomy (CASA) at the University of Colorado at Boulder invites applications for 1 or 2 postdoctoral positions to support the planning and implementation of the Guaranteed Time Observing program of the Science Team for the Cosmic Origins Spectrograph (COS) for the Hubble Space Telescope (HST). COS is a high-throughput ultraviolet spectrograph optimized for observing faint point sources and is currently scheduled to be installed aboard HST in early 2004 (see <http://cos.colorado.edu>). The successful applicant(s) will work closely with the COS Principal Investigator (Prof. James Green), Project Scientist (Dr. Jon Morse), and other members of the Science Team in preparing target lists, obtaining supporting observations, scheduling the HST observing program, and reducing and analyzing COS data. Familiarity with HST Phase II observing proposal preparation is desirable but not mandatory. We are particularly interested in applicants who have some research experience in the study of the intergalactic medium, the interstellar medium in the Milky Way and other galaxies, massive stars and starbursts, molecular clouds, pre-main sequence stars, or planetary science. The successful candidate(s) may devote part of their time to independent research that supports the science mission of HST.

The 1 or 2 positions are for one year each, renewable up to three years, contingent upon the availability of funding. Candidates must have a Ph.D. or equivalent degree in astronomy, physics, or planetary science. For consideration, please submit a resume, publication list, statement of research interests and work experience, and the names of three individuals who can provide reference letters to Prof. James Green at the above address. Applications received by 15 January 2002 will receive full consideration. Start date is negotiable but likely to be mid- to late-Summer 2002. The University of Colorado at Boulder is committed to diversity and equality in education and employment. AAE/EOE.

No. 12314**Postdoctoral Position in Galaxy Cluster Research****RUTGERS UNIVERSITY****Department of Physics and Astronomy****136 Frelinghuysen Road****Piscataway, NJ 08854-8019****Tel: 732-445-2544****FAX: 732-445-4343****Email Inquiries: pcote@physics.rutgers.edu***Attention: Patrick Cote, Professor*

Applications are solicited for a postdoctoral position in the Department of Physics and Astronomy, Rutgers University. The successful candidate will work on the reduction, analysis, and interpretation of optical/X-ray imaging and spectroscopic data of nearby galaxy clusters, as part of a NASA Long Term Space Astrophysics Research Project. The initial appointment, to begin in the fall of 2002, is for two years, renewable for a third year if mutually agreeable. Please send an application consisting of a cover letter, curriculum vitae, list of publications, summary of research interests and accomplishments, and three letters of reference from professional scientists to the above address by 15 January 2002. Requests for further information should be directed by e-mail to pcote@physics.rutgers.edu.

The growing astrophysics group at Rutgers currently consists 13 faculty and research staff, six postdoctoral fellows, and many graduate students. The group has vigorous programs in both observational and theoretical astrophysics, and is a partner institution in the 11-m South African Large Telescope (SALT) which is under construction near Sutherland, South Africa. Please visit our World Wide Web site <http://www.physics.rutgers.edu/ast/group-ast.html> to learn more about the research activities of the astrophysics group at Rutgers. Rutgers is close to New York City and within easy reach of other astronomy major centers, including Princeton, Lucent Technologies (Bell Labs), and Columbia University.

Rutgers is committed to affirmative action, equal opportunity and the diversity of its workforce. AAE/EOE.

No. 12349

Post-doctoral Researcher in Computational Astrophysics

UNIVERSITY OF ROCHESTER

Department of Physics and Astronomy

Rochester, NY 14627-0171

Tel: 716-275-1717

FAX: 716-273-2813

Email Submission Address: afrank@pas.rochester.edu

Email Inquiries: afrank@pas.rochester.edu

URL: www.pas.rochester.edu

Attention: Adam Frank, Professor

The University of Rochester Department of Physics and Astronomy invites applications for a postdoctoral research associate position in computational astrophysics. Expertise in adaptive mesh refinement techniques for fluid and magneto-fluid dynamics is highly desired. Strong candidates with experience in all forms of computational astrophysics will be considered. The position can be filled immediately though the candidate must have a Ph.D. in Astronomy, Physics, or a related field at the time he or she begins.

The successful applicant will join an extensive program, led by Adam Frank and Eric Blackman to develop MHD models of astrophysical outflows. This position is jointly funded by the University of Rochester's Laboratory for Laser Energetics (LLE). The LLE is an inertial confinement fusion research facility and is home of the Omega Laser system, currently the world's most powerful laser. The LLE also houses extensive parallel computational resources.

The appointment will be for three years, subject to availability of funding and suitable performance on the part of the appointee. To apply, please submit a CV, a list of publications, and a statement of research interests and accomplishments and have three letters of reference in support of the candidate sent directly to Professor Adam Frank at the above address. The application review process will continue until the position is filled. AAE/EOE.

No. 12362**Tenure-Track Faculty Position in Experimental Physics or Observational Astronomy****WEBER STATE UNIVERSITY****c/o Human Resource Department****1016 University Circle****Ogden, Utah 84408-1016****URL: <http://physics.weber.edu>***Attention: Dr. Dale A. Ostlie, Chair*

The Department of Physics at Weber State University invites applications for a tenure-track position in experimental physics or observational astronomy, beginning Fall 2002. Seeking applicants with a Ph.D and a strong interest in all levels of undergraduate physics education. Selected candidate will be expected to establish an ongoing research program that involves undergraduates. The Department currently has twelve faculty positions with diverse research interests that include astrophysics, atomic and optical physics, nuclear physics, particle physics, physics education, solid state physics, and space physics. Weber State University is a public undergraduate institution with an enrollment of 16,500. The University is situated against the Wasatch Mountains, 20 minutes from world-class skiing and 30 minutes from Salt Lake City. For more information: <http://physics.weber.edu>. Applications will be accepted until 15 February 2002, or until a suitable candidate is found. Salary commensurate with qualifications and experience. Applicants must send (1) a letter of application, (2) a complete curriculum vitae, (3) a statement of teaching philosophy, (4) a statement of how undergraduates may be involved in research, and (5) arrange to have at least three letters of recommendation sent to Dr. Dale A. Ostlie, Chair, c/o Human Resource Department, at the above address.

No. 12363**Predocctoral Fellowships 2002****SMITHSONIAN ASTROPHYSICAL OBSERVATORY****60 Garden Street****Cambridge, MA 02138***Attention: Secretary, Predocctoral Fellowship Program*

The Smithsonian Astrophysical Observatory (SAO) announces the availability of predoctoral fellowships beginning in July 2002, 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 have completed preliminary course work and examinations and be ready to begin dissertation research at the time of the award. Fellowships are awarded for one year at a time with possible renewal up to a maximum of three years. Stipends for the coming year will be about \$21,500. Application forms and instructions are available at <http://cfa-www.harvard.edu/predoc> and also in hard copy upon request. Applications are due by 15 April 2002. 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.

No. 12364

Assistant Professor of Physics & Astronomy in Plasma Astrophysics**UNIVERSITY OF KANSAS****1251 Wescoe Hall Drive****1082 Malott Hall****Lawrence, KS 66045-7582****Tel: 785-864-4739****FAX: 785-864-5262****Email Submission Address:****Email Inquiries: cravens@ukans.edu****URL: <http://www.phsx.ukans.edu/>***Attention: Thomas E. Cravens, Prof., Physics & Astronomy*

Tenure-track Faculty Position, Plasma Astrophysics, The University of Kansas. The Department of Physics and Astronomy at the University of Kansas invites candidates for a tenure-track assistant professor position in the area of plasma astrophysics beginning in August 2002. Position is contingent on final budgetary approval. Applications from all areas of theoretical plasma astrophysics will be considered. Examples of research areas include, but are not limited to, the study of the interstellar medium, the study of cosmic ray acceleration and propagation, the outer heliosphere, and the study of hot gas in galaxy clusters. Evidence of independent research capabilities in theoretical plasma astrophysics as well as lecturing ability and a commitment to excellence in teaching is required. A Ph.D. in Physics, Astronomy, or a closely related field is required. Post-doctoral experience is preferred. First consideration will be given to applications received by 20 January 2002. Applicants should send a curriculum vitae, a complete list of publications, a short statement of research and teaching interests, and arrange to have sent three letters of recommendation to T. E. Cravens, Search Committee Chair, at the above address. AAE/EOE.

No. 12366**Postdoctoral Position in Gamma Ray Astronomy****NAVAL RESEARCH LABORATORY****Code 7653****4555 Overlook Avenue, SW****Washington, DC 20375****Tel: 202-767-2965****FAX: 202-767-0497****Email Submission Address: DERMER@GAMMA.NRL.NAVY.MIL***Attention: Charles Dermer, Dr.*

Postdoctoral Positions in Gamma Ray Astronomy Modeling and Analysis Naval Research Laboratory.

We invite applications for National Research Council/Resident Research Postdoctoral Associateships in the High Energy Space Environment Branch of the Space Science Division of the Naval Research Laboratory. The research will involve theory, modeling, and numerical simulations of gamma-ray bursts, blazars, cosmic rays, supernovae, and other sources of multi-MeV gamma rays. Approximately 25% of the time will be devoted to the development of software tools for the comparison of models with data obtained with the Gamma-ray Large Area Space Telescope (GLAST; see <http://glast.gsfc.nasa.gov>). Related interests of the branch include X-ray and nuclear gamma-line astronomy, Solar physics, cosmic-ray physics, and hardware development for GLAST and medium energy gamma-ray astronomy missions and detectors (see <http://gamma.nrl.navy.mil>). NRC

positions at NRL are tenable for two years and require the applicant to submit a research proposal to the NRC. Stipend is \$55,000/yr. Deadlines for applications are 15 January and 15 April 15. US citizenship or permanent residency is required for the NRC/NRL program. The applicant should be within 5 years of his or her PhD. For more information and application paperwork, contact Dr. Charles Dermer, tel. 202-767-2965; email:dermer@gamma.nrl.navy.mil. AAE/EOE.

No. 12367**Observational Astronomer****UNIVERSITY OF NORTH CAROLINA****CB#3255 Phillips Hall****University of North Carolina****Chapel Hill, NC 27599-3255****Tel: 919-962-7170****FAX: 919-962-0480****Email Submission Address:****Email Inquiries: jim@physics.unc.edu****URL: <http://www.physics.unc.edu/>***Attention: James A. Rose, Chair, Search Committee*

The Department of Physics and Astronomy of the University of North Carolina invites applications for a tenure-track faculty position in observational astronomy to be filled in 2002. While we have a hiring preference in the area of observational cosmology and/or instrumentation, we encourage applications from all areas of observational astronomy. UNC is a partner in the 4.2-m SOAR telescope, with first light anticipated in 2002, and in the 10-m class Southern African Large Telescope, with first light anticipated in 2006. In addition, an active instrumentation program is conducted within the department's Goodman Laboratory for Astronomical Instrumentation. Thus we are primarily interested in candidates whose research interests can make effective use of some or all of those facilities. Applicants should send a vita, publication list, and statement of research interests. In addition, applicants should arrange to have four letters of reference sent to James A. Rose, Chair, Astronomy Search Committee, at the above address. Consideration of applications will begin on 31 January 2002 and continue until the position is filled. Women and underrepresented minorities are urged to apply. AAE/EOE.

No. 12371**Research Associate/Assistant Astronomer****THE UNIVERSITY OF ARIZONA****Steward Observatory Department****933 N. Cherry Ave.****Tucson, Arizona 85721****Tel: 520-621-2727****FAX: 520-621-1532****Email Submission Address: dwilson@as.arizona.edu****URL: <http://gould.as.arizona.edu/feps>***Attention: Debra Wilson, Program Manager*

Steward Observatory at the University of Arizona invites applications for positions in support of the SIRTf

Legacy Science Program "Formation and Evolution of Planetary Systems" led by Michael Meyer. The science goals of this project are to: 1) characterize the transition from primordial dust to debris disk systems; 2) constrain the timescale of gas disk dissipation; and 3) examine the diversity of planetary system architectures. Candidates will be expected to contribute to the reduction and analysis of infrared data collected with SIRTf as well as ground-based ancillary observing projects and must have a Ph.D. in Astronomy or related field. Demonstrated experience in infrared astronomy, related fields of star and planet formation, and/or IDL-based scientific software is desirable.

Successful candidates will have full access to the facilities of Steward Observatory including the 6.5m MMT and Magellan telescopes, the 2.3m Kitt Peak Bok telescope, and the Heinrich-Hertz Sub-millimeter Telescope on Mt. Graham. For more information, please visit the project WWW site at: <http://gould.as.arizona.edu/feps>.

The positions can be at the Research Associate or at the Assistant Astronomer level at Steward Observatory, at salaries from \$ 38,000 to \$ 47,000 depending on qualifications and experience. Review of materials will begin 1 February 2002 and will continue until the positions are filled. Please send a curriculum vitae, statement of experience and research interests, and the names of three references to Ms. Debra Wilson at the above address or apply via email to: dwilson@as.arizona.edu.

The University of Arizona is an EEO/AA Employer-M/W/D/V.

No. 12373

Senior Software Engineer/Gravitational Wave Detection

LIGO/CALTECH

PO Box 940

19100 LIGO Lane

Livingston, LA 70754

Tel: 225-686-3100

FAX: 225-686-7189

Email Submission Address: coles@ligo.caltech.edu

Email Inquiries: coles@ligo.caltech.edu

URL: www.ligo.caltech.edu

Attention: Dr. Mark Coles, Observatory Head

I. BRIEF POSITION SUMMARY:

The primary responsibilities of this position are to support the installation, commissioning, and operation of the computer and networking systems and software associated with the LIGO site control and monitoring systems and data acquisition system. The job is located at the LIGO Livingston Observatory near Livingston, Louisiana.

II. REQUIRED JOB DUTIES:

- Contribute to the realtime data acquisition and control software used to operate the LIGO interferometer. C and C++ software development, maintenance, and configuration control in both UNIX and VxWorks real-time environments.
- Development of software modifications and upgrades to present control system. · UNIX and VxWorks system administration, computer network setup and administration, including ethernet, ATM and real time reflected memory systems.
- Interested candidates with scientific backgrounds and interests will be able and expected to participate fully in the LIGO Science Collaboration.

III. SKILLS, KNOWLEDGE AND ABILITIES:

- Knowledge of C (C++ helpful) software, especially in a distributed multiprocessor realtime operating system environment using cross-platform development tools.
- Prior experience using a realtime kernel such as VxWorks or equivalent.
- Knowledge of networked UNIX systems.
- Knowledge of X Windows and the ability to develop GUI operator interfaces.

IV. OTHER REQUIREMENTS:

BS or advanced degree in Physics or other physical science area, electrical engineering, computer science, or other equivalent degree/experience. Minimum 5 years experience in C/C++ software development, with a minimum of 1 year of that experience in a real-time operating system environment. Experience in UNIX system and general networking administration. Experience with ATM networks also desirable. Experience with distributed control systems highly desirable. AAE/EOE.

No. 12378

Postdoctoral Position in Theoretical Astrophysics

RUTGERS UNIVERSITY

Physics and Astronomy

136 Frelinghuysen Road

Piscataway, NJ 08854-8019

Tel: 732-445-5742

FAX: 732-445-4343

Email Submission Address: merritt@physics.rutgers.edu

Email Inquiries: merritt@physics.rutgers.edu

URL: <http://www.physics.rutgers.edu/~merritt>

Attention: DAVID MERRITT, PROFESSOR

The Department of Physics and Astronomy at Rutgers University invites applications for a postdoctoral position in theoretical astrophysics. The successful applicant will work with Professor David Merritt on problems relating to the formation and evolution of galaxies; dynamics of single and binary supermassive black holes; dark matter dynamics; and N-body computational techniques. The appointment is expected to be for two years and possibly longer, subject to continued availability of funds. The expected start date is Fall 2002 but an earlier or later date is negotiable. To apply, please send a curriculum vitae, bibliography, a short statement of research interests and accomplishments, and three letters of reference to the above address by 15 January 2002.

No. 12385

Senior research position in Extragalactic Astrophysics

ASTROPHYSIKALISCHES INSTITUT POTSDAM

An der Sternwarte 16

Potsdam, 14482

Germany

Tel: +49-331-7499-381

FAX: +49-331-7499-267

Email Submission Address: msteinmetz@aip.de

Email Inquiries: msteinmetz@aip.de

URL: <http://www.aip.de>

Attention: Prof. Dr. M. Steinmetz,

The Astrophysikalisches Institut Potsdam (AIP) is offering a senior research position in extragalactic astronomy. We expect this position to be a tenure-track appointment, but for particularly promising candidates a tenured appointment may be considered. Appointments will be awarded to a scientist who has demonstrated leadership and creativity in developing an observational program in extragalactic astronomy. The successful candidate will be expected to establish an independent, observationally-oriented research program at the AIP.

The AIP is located in Potsdam/Babelsberg, at the south-western border to Berlin. About 70 scientists work on a variety of astrophysical topics. The AIP is partner of the LBT project and has access to the ESO VLT. It recently commissioned an optical integral field spectrograph, built in-house. For future instrumentation projects, the AIP offers a new technology building with modern workshops and laboratories. It is involved in the XMM survey science centre and in the astrometric mission DIVA. It features excellent computer facilities and has access to supercomputers. Potsdam further hosts the Albert-Einstein Institute for Gravitational Physics, the Astronomy department of Potsdam University and several other research institutions.

Applications should be sent with the usual materials, including curriculum vita and a research program to the address above by 15 January 2002. Applicants should also arrange for three letters of recommendation to be sent by the same date. Later applications will also be considered until the post is filled.

The AIP is an equal opportunity employer and particularly encourages applications from women.

No. 12386

Postdoctoral Associates in Galactic or Extragalactic Astrophysics

ASTROPHYSIKALISCHES INSTITUT POTSDAM

An der Sternwarte 16

Potsdam, 14482

Germany

Tel: +49-331-7499-381

FAX: +49-331-7499-267

Email Submission Address: msteinmetz@aip.de

Email Inquiries: msteinmetz@aip.de

URL: <http://www.aip.de>

Attention: Prof. Dr. M. Steinmetz, Director

The Astrophysikalisches Institut Potsdam (AIP) is offering several postdoctoral positions in galactic or extragalactic astronomy intended for highly motivated young scientists who are excited by the opportunity to carry out an independent research program. In particular we are interested in the following areas: star formation (theory), the structure, formation, and evolution of galaxies (theory, observation), cosmology (observation). The initial appointment will be made for 2-3 years, depending on experience, with yearly extensions possible to a maximum of 5 years. For particularly promising candidates a tenure-track appointment may be considered.

The AIP is located in Potsdam/Babelsberg, at the south-western border to Berlin. About 70 scientists work on a

variety of astrophysical topics. The AIP is partner of the LBT project and has access to the ESO VLT. It recently commissioned an optical integral field spectrograph, built in-house. It is involved in the XMM survey science centre and in the astrometric mission DIVA. It features excellent computer facilities and has access to supercomputers. Potsdam further hosts the Albert-Einstein Institut for Gravitational Physics, the Astronomy department of Potsdam University and several other research institutions.

Applications should be sent with the usual materials, including curriculum vita and a brief statement of research interests to the address above by 15 January 2002. Applicants should arrange for three letters of recommendation to be sent by the same date. Later applications will be considered until all posts are filled. The AIP is an equal opportunity employer and particularly encourages applications from women.

No. 12387

Experimental Physicists

UNIVERSITIES SPACE RESEARCH ASSOCIATION

MIRRORS-02

7501 Forbes Blvd.

Suite 206

Seabrook, MD 20706-2253

Attention: David Holdridge

The Universities Space Research Association (USRA) is seeking one or more experimental physicists to participate in the development of X-ray mirrors. This work will be performed in collaboration with scientists in the X-Ray Branch of the Laboratory for High Energy Astrophysics at NASA's Goddard Space Flight Center in Greenbelt, Maryland who have pioneered the development of conical foil mirrors flown on several space missions. Current activities include the development of high angular resolution, large angular diameter segmented mirrors for Constellation-X, multilayer coated mirrors for high-energy imaging and polarimetry, and precision optics for X-ray interferometry. The successful candidates will have full access to an extensive list of laboratory equipment and facilities including computing and other NASA facilities. The position will entail a mix of program support and personal scientific research related to NASA High-Energy Astrophysics programs.

The position requires a Ph.D. in Physics, Astronomy, or related disciplines. Experience with X-ray or optical instrumentation, data analysis, and related laboratory and/or instrument development work are all highly desirable. Salary will be competitive and commensurate with experience and qualifications.

USRA is a non-profit university consortium, chartered to broaden opportunities for collaboration between university and government space research communities. Applications received by 2/11/02 will receive full consideration. Apply on-line at: <http://www.gvsp.usra.edu/cpps/resume/index.html> and/or mail letter describing research interests, complete CV and publication list, and contacts for at least three references to Universities Space Research Association at the above address, attention MIRRORS-02. AAE/EOE.

No. 12388

Postdoctoral Position in Nuclear and Particle Astrophysics

NORTH CAROLINA STATE UNIVERSITY

Department of Physics

Box 8202

Raleigh, NC 27695-8202

Tel: 919-513-0516

Email Inquiries: Gail_McLaughlin@ncsu.edu

Attention: G. McLaughlin,

The Department of Physics at North Carolina State University expects to have an opening for a postdoctoral research associate to begin fall 2002. Applicants are expected to participate in research projects in theoretical nuclear astrophysics, particle astrophysics or neutrino physics. Applicants must have a Ph.D. in physics, astronomy or a related field, with background in one of the following areas: astrophysics, particle physics or nuclear physics. Interested candidates should send a CV, list of publications, statement of research interests and three letters of recommendation to Prof. G. McLaughlin, at the above address. Applications will be considered beginning 1 February 2002. ADA accommodations: Rebecca Savage, 919-515-2521. AAE/EOE.

No. 12393

Postdoctoral Research Position in Active Galactic Nuclei

GEORGIA STATE UNIVERSITY

Astronomy Offices

One Park Place South SE, Suite 700

Atlanta, GA 30303

Tel: 404-651-1365

FAX: 404-651-1389

Email Inquiries: crenshaw@chara.gsu.edu

URL: <http://www.chara.gsu.edu/>

Attention: Prof. Michael Crenshaw,

Applications are invited for a postdoctoral research position in the Department of Physics and Astronomy at Georgia State University. The successful applicant will work with Prof. Michael Crenshaw and collaborators on observational and computational studies of active galaxies and quasars. Current projects include studies of mass loss in active galaxies with HST, FUSE, Chandra, and XMM; physical conditions, kinematics, and reddening in the circumnuclear regions; and variability of the continuum, emission lines, and absorption lines. Observational experience (in any wave band) and/or computational experience in the above areas are desirable.

The position is for two years beginning in summer or fall 2002, with a possible extension to three years. Curriculum vitae, a bibliography, a one-page summary of research interests, and three letters of reference should be sent to Prof. Crenshaw at the above address. The deadline for receipt of these materials is 31 January 2002. AAE/EEO.

No. 12394

Postdoctoral Position in Stellar Abundance Analysis

CARNEGIE OBSERVATORIES

813 Santa Barbara St.

Pasadena, CA 91101

Tel: 626-304-0249

FAX: 626-795-8136

Email Inquiries: andy@ociw.edu

Attention: Dr. A. McWilliam

Applications are invited for a postdoctoral research position at the Carnegie Observatories, to begin after 1 July 2002. The successful applicant will work with Dr. A. McWilliam and Dr. R.M. Rich (UCLA) on the acquisition and analysis of echelle spectra of Galactic bulge red giant stars, obtained using the Carnegie Observatories' 6.5m telescopes and the W.M. Keck Observatory. A PhD and previous experience with abundance analysis of high resolution stellar spectra are required. Experience with the photometric analysis packages DAOPHOT and DOPHOT, and/or the reduction of infrared photometric data, while not essential, would be useful for the project.

Applications should include a CV, publication list, and a one page statement of research interests; applicants should arrange for three professional reference letters to be sent to Dr. A. McWilliam at the above address by 1 February 2002.

No. 12396

Postdoctoral Position in Computational Astrophysics

MCMASTER UNIVERSITY

1280 Main St. W.

Hamilton, Ontario L8S 4M1

Canada

Tel: 905-525-9140 x24189

FAX: 905-546-1252

Email Submission Address: asills@mcmaster.ca

Attention: Alison Sills, Assistant Professor

Applications are invited for a post-doctoral position in computational astrophysics at McMaster University, to work with Dr. Alison Sills on globular cluster dynamics and evolution, concentrating on the feedback between single star evolution and the effects of dense environments.

Applicants should have expertise in theoretical/computational stellar dynamics or hydrodynamics, and in parallel computing (experience with MPI is a benefit), and an interest in stellar populations and evolution. This position is partially funded by SHARC-Net (<http://coho.mcmaster.ca/SHARC-Net>), and the applicant will have full access to the SHARC-Net 112 cpu AlphaServer SC at McMaster, as well as an 8 cpu Beowulf and an excellent desk-top computing environment. See <http://www.physics.mcmaster.ca> for information on the Astronomy and Astrophysics group at McMaster, which currently consists of 7 faculty members, 4 post-docs/research associates, and 9 graduate students.

The appointment will be for a minimum of 2 years, with the possibility of renewal for a third year, contingent upon performance and the availability of funds. Funds will be available for travel and other research expenses.

Interested applicants should send their CV, bibliography and a statement of research interests, as well as arrange for 3 letters of reference be sent to Alison Sills at the above address. For full consideration, applications and supporting letters should be received by 15 January 2002. The successful candidate must have a PhD by the start date, which is flexible but preferably as early as possible in 2002.

No. 12397

Postgraduate Researcher - DEEP

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

1156 High Street

Santa Cruz, CA 95064

Tel: 831-459-2991

URL: <http://www.ucolick.org/~deep/home.html>

Attention: Postgraduate Researcher Recruitment #T02-20, c/o UCO/Lick Observatory

The University of California Observatories/Lick Observatory invites applications a postgraduate researcher position, contingent on funding. Appointee will be a team member of the DEEP project, a program aimed at studying the large scale structure, formation and evolution of faint galaxies. Data include the 120-night DEEP survey of 50,000 faint galaxies with Keck, plus subsurveys with Hubble Space Telescope. Appointee will lead one or more subprograms in collaboration with Drs. Sandra Faber, Raja Guhathakurta, and David Koo, senior members of DEEP. Opportunity and funds will be provided for independent research. Preference will be given to candidates with demonstrated experience with observations of faint galaxies.

RANK: Postgraduate Researcher Step V to Step VIII

SALARY: \$36,912 - \$41,940

MINIMUM QUALIFICATIONS: PhD or equivalent in Astronomy or Physics or a closely related field, relevant refereed publications, and experience with galaxy data reductions and analysis. Must be able to work independently yet collegially in a team environment.

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

POSITION START DATE: 1 July 2002 (negotiable).

URL FOR MORE INFO: DEEP – <http://www.ucolick.org/~deep/home.html>

APPLICATION MATERIALS: Vita, two-page summary of relevant experience and plans, and three or more letters of recommendation.

SUBMISSION ADDRESS:

**Postgraduate Researcher Recruitment
c/o UCO/Lick, Office of the Director
University of California
Santa Cruz, CA 95064**

Please refer to provision #T02-20 in your reply.

CLOSING DATE: All materials must be received no later than 31 January 2002.

No. 12398

**Director of Astronomical Laboratories
UNIVERSITY OF COLORADO, BOULDER
Campus Box 391-UCB
Boulder, CO 80309
Tel: 303-492-7827
FAX: 303-492-7178
Email Submission Address: mshull@casa.colorado.edu
URL: <http://aps.colorado.edu>**

Attention: Michael Shull, Professor and Chair

The Department of Astrophysical and Planetary Sciences (APS) at the University of Colorado, Boulder plans to hire a new Director of Astronomical Laboratories, to commence on or after May 2002. The Astronomical Laboratories include the Fiske Planetarium and the Sommers-Bausch Observatory (SBO). The position may involve supervision of one or both facilities, with the division of the Director's responsibilities depending on the interests and qualifications of the successful candidate. Information about these facilities and the Fiske/SBO staff can be found on the department website (click on Fiske and SBO links under the "Institutes" button).

Candidates should have a Ph.D. in astronomy or a closely related field, and have experience with the scientific and educational uses of planetariums, ground-based telescopes, and undergraduate astronomy labs. Candidates should also be committed to working with APS faculty members who teach undergraduate astronomy courses.

The position is a 12-month appointment as Senior Instructor and Research Associate, with salary commensurate with experience. The position requires a commitment to some teaching in the Department's undergraduate program and the ability to manage an experienced technical staff and student assistants. Candidates should also demonstrate an interest in developing community outreach programs and overseeing the development of planetarium programs. The Director may also carry on a small research program, if that would be important to their interests and career goals.

Applicants should send a statement of interest, curriculum vitae, a short description of scientific and educational interests, and the names of three people willing to provide professional references. The e-mail addresses of the candidates and their recommenders should be included. We will begin reviewing applications, starting 15 January 2002, and we will continue to consider applications until the position is filled. The University of Colorado is committed to diversity and equality in education and employment. AAE/EOE.

No. 12400

Postdoctoral Research Position-Ultraviolet or X-Ray Astronomy

UNIVERSITY OF MICHIGAN

500 Church Street

830 Dennison Building

Ann Arbor, Michigan 48109-1090

Tel: 734-764-3440

FAX: 734-763-6317

Email Submission Address: cwery@astro.lsa.umich.edu

Email Inquiries: jbregman@umich.edu

URL: www.astro.lsa.umich.edu

Attention: Joel Bregman, Postdoctoral Research Position

We expect to make a postdoctoral appointment in the Department of Astronomy. The appointment will be with Joel Bregman to work on X-ray (Chandra, XMM) and ultraviolet (FUSE) data of galaxies and clusters of galaxies, where the program emphasizes the nature of the gaseous and dark matter content of these systems. The funding is for two years with a possible extension for a third year.

The successful applicant will have access to the Magellan 6.5m telescopes in Chile, the MDM 1.3 m and the 2.4 m telescopes on Kitt Peak and the departmental computer network for research activities.

Applicants should provide a vita, bibliography and a statement of research interests and send at least three letters of recommendation. Applications received prior to 20 January 2001 will receive first consideration. AAE/EOE.

No. 12402

Postdoctoral Research Associate

THE UNIVERSITY OF ARIZONA

Steward Observatory Department

933 N. Cherry Ave.

Tucson, Arizona 85721

Tel: 520-621-4032

FAX: 520-621-1532

Email Submission Address: rkennicutt@as.arizona.edu

URL: www.arizona.edu

Attention: Prof. Robert C. Kennicutt, Jr., Professor of Astronomy

Applications are invited for a postdoctoral position in observational extragalactic astronomy. The successful candidate will collaborate in a program of multi-wavelength studies of nearby galaxies, aimed at characterizing the large-scale star formation and evolutionary properties of galaxies. The group is involved in several large surveys including the SIRTf Nearby Galaxies Survey Legacy project. Applicants must have a Ph. D. in astronomy or related field. Individuals with experience in visible, ultraviolet, and/or far-infrared observations of star forming galaxies, or with theoretical expertise in radiative transfer of dust in galaxies are especially encouraged to apply.

This position is expected to be a 2- to 3- year appointment starting in fall 2002, subject to the annual renewal policy of the University of Arizona for all appointed positions. The successful applicant will have access to the research facilities of Steward Observatory, including the 6.5m MMT and Magellan telescopes, the 2.3m Bok telescope, and other facilities at Mt. Bigelow and Mt. Graham International Observatory.

Applicants must send a curriculum vitae, list of publications, a statement of research interests and accomplishments, and a brief cover letter describing their interests and qualifications for this position to the address given below. Three letters of reference in support of the candidate must be sent directly to Prof. Robert C. Kennicutt, Jr. at the address above.

Applicant review will begin 1 February 2002, and continue until the position is filled. The University of Arizona is an EEO/AA employer, M/W/D/V.

No. 12408

Open Rank Faculty Position

UNIVERSITY OF TORONTO

Department of Astronomy and Astrophysics

McLennan Physical Laboratories

60 St. George Street

Toronto, Ontario M5S 3H8

Canada

Tel: 416-978-3150

FAX: 416-971-2026

Email Inquiries: carlberg@astro.utoronto.ca

URL: eir.library.utoronto.ca/academicjobs

Attention: William Clarke, Chair, Department of Astronomy and Astrophysics

The Department of Astronomy and Astrophysics seeks candidates for a tenured or tenure-stream faculty appointment - the first of a number of appointments planned for the next few years. We seek candidates who will augment or complement the research strengths of the Department.

The University of Toronto hosts the Canadian Institute for Theoretical Astrophysics, has access to the Magellan Telescopes, is participating in the Boomerang I&II experiments, hosts the Canadian scientific centre for the Canada-France Hawaii Legacy Survey, owns the David Dunlap Observatory, and is developing plans for a share of a 20m-class ground-based telescope. For more information see the websites www.utoronto.ca, www.astro.utoronto.ca, www.cita.utoronto.ca, and www.physics.utoronto.ca

The University of Toronto offers the opportunity to teach, conduct research and live in one of the most diverse cities in the world, and is strongly committed to diversity within its community. The University 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.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Inquiries can be made to the Chair of the Search Committee, Ray Carlberg (carlberg@astro.utoronto.ca).

An application letter and a c.v. should be sent by 1 February 2002 to Chair, Department of Astronomy and Astrophysics, at the above address.

No. 12410

Zwicky Prize Fellowships in Astrophysics

ETH ZURICH

Departement Physik

ETH Hoenggerberg

CH-8093 Zurich, Switzerland

Email Submission Address: cosmology@phys.ethz.ch

Email Inquiries: cosmology@phys.ethz.ch

Attention: Zwicky Fellowships,

As part of a major new initiative in astrophysics associated with the appointment of several new Chairs in experimental and theoretical astrophysics in Zurich, the Swiss Federal Institute of Technology (ETH) is opening the ETH Zwicky Fellowship program in Astrophysics. It is expected that three Fellowships will be awarded in 2002 with further awards to be made in the future. The Fellowships will be of three years duration and will be awarded to outstanding researchers in any area of astrophysics who have received their PhD within the last three years. Applicants can receive further information about this new initiative and the Zwicky Fellowship Program by emailing cosmology@phys.ethz.ch.

The Zwicky Fellows will carry out independent research and will have full access to the facilities of ESO and

ESA, including the four 8-m telescopes of the VLT. Computer resources will be provided for the Fellows who will also manage a personal research grant of CHF 21,000 (approx. USD 12,500) per year. The salary will be CHF 72,000 - 80,000 (approx. USD 44,000-49,000) depending on research experience.

Applications are invited from all nationalities. Applications should consist of a CV, publication list, and a brief description of past and proposed research. Deadline for application is 15 January 2002. Applicants should also arrange for three letters of reference to be sent by the same deadline.

Two other postdoctoral positions in extragalactic astrophysics may become available at ETH Zurich in 2002 and suitable applicants for the Zwicky Fellowships will automatically be considered for these.

No. 12412

Tenure Track Astrophysics Position

FERMI NATIONAL ACCELERATOR LABORATORY

P.O. Box 500

M.S. 209

Batavia, IL 60510

URL: www.fnal.gov

Attention: Faculty Search Committee, NASA/Fermilab Astrophysics Center

The Fermilab Theoretical Astrophysics Group announces an opening for an Tenure Track Position with the Fermilab Theoretical Astrophysics Group equivalent to Assistant Professor. The group has a wide range of interests, including theories of the early Universe and their connection to particle physics, the cosmic microwave background, large-scale structure and evolution, dark matter and dark energy, ultra-high energy cosmic rays, neutrino astrophysics, and other topics in particle astrophysics. Our work on cosmological implications of physics beyond the Standard Model overlaps with the interests of several members of the Fermilab Particle Theory group. We also work closely with the experimental astrophysics program, which includes the Sloan Digital Sky Survey, the Pierre Auger Project, and the Cryogenic Dark Matter Search.

Currently, there are five staff members (Scott Dodelson, Joshua Frieman, Edward Kolb, Albert Stebbins, and Michael Turner) and five post-docs (including one long term fellow) in the group. Interested applicants should, before January 31, 2002, send a curriculum vitae (including a brief statement of research interests), and arrange for three letters of recommendation to be sent to the above address. AAE/EOE.

No. 12415

Postdoctoral Researcher - Theoretical UHE Neutrino & Gamma-Ray Astrophysics

THE PENNSYLVANIA STATE UNIVERSITY

Dept. of Astronomy & Astrophysics

525 Davey Lab., Box M

University Park, PA 16802

Tel: 814-865-0418

FAX: 814-863-2842

Email Submission Address:

Email Inquiries: lutz@astro.psu.edu

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

Attention: Ms. Cathy Lutz, Staff Assistant

A postdoctoral position starting Fall 2002 is available to work in theoretical UHE neutrino and gamma-ray processes in GRB and AGN with Dr. Peter Meszaros (PSU) and Dr. Eli Waxman (Weizmann). Experience in high energy processes and astrophysics (e.g. relativistic hydro, particle acceleration) is desirable. Penn State (<http://www.astro.psu.edu>) is involved in the Swift, AUGER and Chandra-ACIS experiments, the Hobby-Eberly telescope and the Center for Gravitational Wave Physics; and Weizmann (<http://www.weizmann.ac.il/physics/astro>) has active groups in high energy physics and astrophysics; both institutions have various GRB and AGN projects. The work would be carried out at Penn State and/or Weizmann. A PhD in Astronomy or Physics is required. Applications with CV, publication list and three reference letters to Ms. Cathy Lutz, at the above address. Consideration of applications starts after 1 December 2001 until the position is filled. AA/EOE

No. 12422**Postdoctoral Research Fellowship in Extragalactic Astrophysics****UNIVERSITY OF MELBOURNE****Parkville, VIC 3010****Australia****Tel: +61-3-8344-6078****FAX: +61-3-9344-4694****Email Inquiries: r.webster@physics.unimelb.edu.au****URL: <http://astro.ph.unimelb.edu.au/>**

Attention: The Deputy Principal, Human Resources (Please quote the position number Y0010849)

The School of Physics at the University of Melbourne invites applications for a postdoctoral research fellowship in theoretical and/or observational astrophysics. The appointee will be expected to pursue independent research in the general areas of cosmology and extragalactic astrophysics.

The astrophysics group in the School of Physics (<http://astro.ph.unimelb.edu.au/>) is a key partner in the HIPASS HI All-Sky Survey and 6dF Project. It maintains an active research program in active galaxies, gravitational lensing, galaxy clusters, and neutron stars. This position, and a second position to be advertised shortly by UNSW, are part of a multi-institutional collaboration to study the formation and evolution of extragalactic objects, involving the Universities of Melbourne, NSW, Sydney, and Wollongong, the Australian National University, and the Australia Telescope National Facility.

Appointment will be for two years. The salary scale is AUD 46,838 - 50,278 (Australian dollars) per annum (Research Fellow Grade 1) depending on experience, plus 17% employer superannuation, salary packaging, relocation expenses (maximum AUD 5,000), and medical insurance (for non-Australian citizens). In addition, the appointee will receive AUD 8,000 per annum to cover research expenses.

A full position description and selection criteria are listed at <http://www.ph.unimelb.edu.au/~rwebster/pd.html>. The University of Melbourne is an equal opportunity employer.

Applications must include a CV, bibliography, statement of research interests, and contact details of three referees, quoting the position number Y0010849, and should be addressed to The Deputy Principal, Human Resources, at the above address. Applicants must also arrange for three letters of recommendation to arrive at the same address. Applications are due by 15 February 2002.

No. 12427**Assistant Professor Search**

COLUMBIA UNIVERSITY**Department of Astronomy****550 West 120th Street****Mail Code 5246****New York, NY 10027****Tel: 212-854-6850****Email Inquiries: jvangork@astro.columbia.edu (Astronomy Department Chair, Jacqueline van Gorkom)***Attention: Jacqueline van Gorkom, Astronomy Department Chair*

The Department of Astronomy at Columbia University will have an additional opening for an assistant professor on its faculty. Applications from all disciplines in astronomy and astrophysics are welcome. (Note that we have a separate junior faculty search for a theoretical astrophysicist: Job Register No. 12113.) This appointment can begin as early as July 2002, although arrangements for a somewhat later start date are possible if required. Successful candidates will be expected to carry out an active, independent research program, supervise graduate research and teach at the graduate and undergraduate level.

Research at Columbia covers the entire spectrum from radio waves to gamma rays, and consists of observational, experimental and theoretical work. In addition to ten faculty in the astronomy department there are six faculty members in the physics department involved in astrophysical research. Columbia has a 25% share in the MDM Observatory providing access to a 2.4m and 1.3m telescope at Kitt Peak. For more information on the department see <http://www.astro.columbia.edu>.

The deadline for applications is 15 January 2002. Applicants should submit a curriculum vitae, a list of publications, a short description of research and teaching interests, and names of three individuals willing to write letters of recommendation. Email addresses of candidates and their recommenders should be included. Minorities and women are encouraged to apply. AAE/EOE.

No. 12430**Observatory Supervisor/Instructor****WILLIAMS COLLEGE****Astronomy Department****33 Lab Campus Drive****Williamstown, MA 01267****Tel: 413-597-2272****FAX: 413-597-3200****Email Inquiries: kkwitter@williams.edu****URL: www.williams.edu/astronomy***Attention: Professor Karen Kwitter, Chair*

The Astronomy Department at Williams College announces an opening beginning 1 July 2002, for an Observatory Supervisor/Instructor (OS/I). This full-time position carries an initial appointment of one year, and is renewable annually.

Primary responsibilities include supervision of the introductory astronomy observing program and training of observing TA's, some introductory lab teaching, and oversight and maintenance of the telescopes and observing

equipment for solar and nighttime use. The OS/I is also encouraged to become involved in the development of innovative laboratory and observing experiences for students at all levels. Our rooftop observatory houses a 24-inch DFM, a 14-inch Meade, and a 5-inch solar spar, each in its own dome, along with a 7-foot radio telescope and several smaller optical telescopes. We have 2 CCD's in routine use; one for imaging, and one attached to a spectrograph. The department houses a network of linux workstations running IRAF, and a variety of Macs (some running IDL) and PC's.

Applicants should have at least a B.A. or B.S. in astronomy or a related field. Experience with computers (Macs, PC's, UNIX/linux, web page maintenance) and electronics is highly desirable, as is previous teaching experience.

Applicants should send a CV and arrange for two letters of recommendation to be sent to the above address by 31 January 2001.

Williams College is a highly selective liberal arts college with 2000 students in the Berkshires of western Massachusetts (see <http://www.williams.edu/astronomy>). Williams College especially welcomes applications from women and minorities. AAE/EOE.

No. 12431

Postdoctoral Fellowship, Extragalactic Astronomy

THE OHIO STATE UNIVERSITY

140 W. 18th Ave

4055 McPherson Lab

Columbus, Ohio 43210

Tel: 614-292-1773

FAX: 614-292-2928

Email Submission Address: posmer@astronomy.ohio-state.edu

Email Inquiries: posmer@astronomy.ohio-state.edu

URL: www.astronomy.ohio-state.edu

Attention: Patrick Osmer, Professor

The Department of Astronomy at The Ohio State University has an opening for an observationally oriented extragalactic astronomer at the postdoctoral level. Experience with IRAF, large data sets, multi-wavelength observations including optical/IR, plus familiarity with theoretical models of AGNs and galaxies is desirable. The position will involve half-time collaborative work with Professor Patrick Osmer and the OSU AGN group, which includes S. Mathur, J. Miralda-Escude, B. Peterson, R. Pogge, and D. Weinberg; the remaining time will be for independent research. Research projects of the group include deep multicolor surveys, reverberation mapping and mass determinations, UV/optical spectra and X-ray observations, and theoretical work on the relation of black holes and quasars to cosmology and the intergalactic medium. The position offers opportunities for innovation in connecting different research areas to improve our understanding of the formation and evolution of AGNs.

The initial appointment will be for two years and may be renewed for a third year. Applicants should have received a Ph.D. degree in astronomy or astrophysics within the last five years. The anticipated starting date is mid-2002, but there is flexibility to accommodate individual circumstances.

Applications should include a curriculum vita and bibliography and a statement of research accomplishments and interests. Applicants should arrange for three letters of reference to be sent separately.

For full consideration, applications should be received by 15 January 2002. Women and minority candidates are especially encouraged to apply. AAE/EOE.

No. 12434

Astrophysicist

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

Human Resources, MS-17

60 Garden Street

Cambridge, MA 02138

Tel: 617-495-7374

FAX: 617-495-7263

Email Submission Address: saoresumes@cfa.harvard.edu

Attention: Recruiter 228

Federal, Permanent/Full Time, GS-1330-12/13/14
\$54,072 - \$98,782 annually

The Smithsonian Astrophysical Observatory invites applications from highly qualified individuals for appointment as an Astrophysicist for the Optical and Infrared Astronomy Division. The individual selected for this position will contribute to a program of research and development of infrared instrumentation for ground-based facilities including the converted MMT and Magellan Telescopes. The Astrophysicist will also formulate and conduct independent astronomical research in galactic and extragalactic astronomy through emphasis on infrared observations.

Applicants should possess broad knowledge of physics or astronomy as might be evidenced by a Ph.D. in astrophysics, astronomy, or physics or comparable professional experience; advanced knowledge of the principles of astronomy to formulate, conduct and present results of independent research in the fields of galactic and extragalactic astronomy with emphasis on infrared observations; recognition in the field as evidenced by a significant record of publications; extensive experience in instrument planning, design, development and construction; ability to use computers for acquisition, analysis and interpretation of astronomical observations.

Interested applicants should forward curriculum vitae and bibliography, and arrange for three professional reference letters to be sent to Recruiter 228 at the above address or via email to saoresumes@cfa.harvard.edu. For further details on this vacancy, please visit our website at

No. 12438

Postdoctoral Research Position, Stellar Astronomy

PAUL SCHERRER INSTITUT

Wuerenlingen and Villigen

Villigen PSI, AG, CH-5232

Switzerland

Tel: +41- 56 -310-26-90

FAX: +41- 56 -310-26-79

Email Submission Address: elke.baumann@psi.ch

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

Attention: Human Resources, Ref. Code 1513,

We invite applications for a postdoctoral research position in stellar astrophysics, starting in summer or fall 2002. This position is initially awarded for up to three years, with the possibility of extension. We are particularly looking for candidates with a background in one or more of the following fields: (i) star formation

No. 12442**Extragalactic Astronomy and Cosmology****UNIVERSITY OF ILLINOIS****1002 W. Green St****Urbana, IL 61801****Tel: 217-333-9239****FAX: 217-244-7638****Email Submission Address: jmohr@uiuc.edu****Email Inquiries: jmohr@uiuc.edu****URL: <http://www.astro.uiuc.edu/~jmohr/Job>***Attention: Prof. Joseph J Mohr,*

Applications are invited for a postdoctoral research position in the Department of Astronomy. The successful applicant will work with Prof. Joseph Mohr and the other faculty, postdocs and students working in the area of extragalactic astronomy and cosmology in both the Astronomy and the Physics Departments. Research will focus on galaxy cluster physics and on using clusters as tools to study structure evolution and cosmology. Applicants with strengths in theoretical and observational astronomy are encouraged to apply. Experience using X-ray, SZE, optical, or near-IR data is a plus; special consideration will be given to candidates with experience in the analysis of X-ray data.

This position is funded through the NASA Long Term Space Astrophysics program. The initial appointment will be for 2 years, with the possibility of a third year given adequate progress. The targeted start date is 21 August 2002 (negotiable). Interested parties should submit a research statement, CV, and publication list and arrange to have three letters of recommendation sent directly to Prof. Mohr. Applications are due 15 January 2002.

No. 12443**Postdoctoral positions in Radio Astronomy****NETHERLANDS FOUNDATION FOR RESEARCH IN ASTRONOMY****(NFRA/ASTRON)****Postbus 2****7990 AA Dwingeloo****The Netherlands****Tel: 031-521-595100****FAX: 031-521-597332****Email Submission Address: ger@astron.nl****Email Inquiries: ger@astron.nl****URL: www.astron.nl***Attention: Prof. A.G. de Bruyn, head astronomy group*

The Netherlands Foundation for Research in Astronomy (NFRA, Dutch name ASTRON) has 2 positions available for postdoctoral research in radio astronomy. The successful candidates are expected to pursue research in any of the fields covered by the available facilities. ASTRON operates the Westerbork Synthesis Radio Telescope, which participates in the EVN and global VLBI networks. The WSRT has recently completed a major upgrade with a wide suite of new receivers and an extremely powerful spectral line backend.

Other frontline research facilities available to astronomers working in the Netherlands are the JCMT, the ING group telescopes and the ESO-VLT.

The ASTRON institute also hosts the Joint Institute for VLBI in Europe (JIVE). ASTRON and JIVE staff are engaged in many frontline research activities: HI kinematics and studies of nearby galaxies, AGN (structure, atomic/molecular absorption, variability), starburst galaxies, molecular lines, cosmology, pulsars and the ISM in our Galaxy and external galaxies.

ASTRON also has a world-class technical division engaged in the design of future radio telescopes and backends (e.g. SKA, ALMA and the low-frequency array LOFAR).

Appointments are initially for two years and can be renewed for a third year. Applications, including a CV and research plan, and two letters of reference, can be submitted by email and should be received by 1 February 2002. The employee will be in the formal employ of the Netherlands Organization for Scientific Research (NWO) at a salary scale commensurate with age and experience. Relocation expenses and assistance with finding accommodation will be provided.

For further information contact Prof. Ger de Bruyn (ger@astron.nl) or Dr. Willem Baan (baan@astron.nl).

No. 12445

Ohio Eminent Scholar in Observational Cosmology

THE OHIO STATE UNIVERSITY

Dept of Astronomy; 4055 McPherson Lab

140 W. 18th Ave.

Columbus, Ohio 43210

Tel: 614-292-1773

FAX: 614-292-2928

Email Submission Address: posmer@astronomy.ohio-state.edu

Email Inquiries: posmer@astronomy.ohio-state.edu

URL: www.astronomy.ohio-state.edu

Attention: Patrick Osmer, Chair/Professor

The Department of Astronomy at The Ohio State University is searching to fill the position of Ohio Eminent Scholar in observational cosmology. The position is an endowed, chaired professorship that has been funded by the state and the university, and the intent is to fill it within a maximum of two years. It offers a remarkable opportunity for an outstanding cosmologist. Key attractions of the department include a 1/6 share of the observing time on the Large Binocular Telescope (LBT), which will be the world's largest telescope on a single mount when it is completed in 2004/2005; a 1/4 share of the MDM Observatory; and the Imaging Sciences Laboratory, which has a broad range of expertise and capabilities in astronomical instrumentation. On the intellectual side, the key strength of the department is its extraordinarily vital scientific atmosphere. Specific concentrations of the department's research efforts include cosmology theory, quasars and active galactic nuclei, and the stellar populations and interstellar medium of the Milky Way and other galaxies. The department also has a strong graduate program with a very high level of student research activity. We are looking for a candidate who will contribute to and benefit from the department's exceptional scientific environment. The Eminent Scholar will play a leading role in our efforts to apply the LBT to critical problems in cosmology. We welcome inquiries, suggestions, and expressions of interest. Women and minority candidates are especially encouraged to apply. AAE/EOE.

No. 12446**Postdoctoral Research Associate in Theoretical Cosmology
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN****Loomis Laboratory of Physics****1110 West Green Street****Urbana, Illinois 61801-3080****USA****Tel: 217-244-1553****FAX: 217-244-7559****Email Submission Address: slw@uiuc.edu, bwandelt@uiuc.edu (please submit to both)****Email Inquiries: bwandelt@uiuc.edu****URL: <http://www.physics.uiuc.edu/Research/Postdoc-Cosmology.html>***Attention: Sue Lynn Herdle, Secretary*

A postdoctoral position for a talented young scientist to work on problems in theoretical cosmology with Professor Benjamin Wandelt will be available beginning in August 2002 or a mutually agreeable date.

A new era of cosmology has begun. MAP is scanning the cosmic microwave background and will release the first data in the end of 2002. Other observational efforts are charting the far reaches of the Universe in a multitude of ways. The successful candidate will be taking advantage of the opportunities these data sets present, working on their interpretation and maximizing their impact on cosmology.

The appointment will include a competitive salary, research and travel funds as well as shared access to supercomputing resources at national facilities such as the NCSA and elsewhere. Through Professor Wandelt's work, UIUC is one of only a few select US institutions which are linked to the Planck collaboration, a major international endeavour in cosmology. As part of a major initiative in astronomy, astrophysics and cosmology, 2 faculty and several postdoc hires are anticipated in Fall 2002, amongst them a joint NASA/Astronomy faculty position in computational astrophysics and cosmology.

The position will initially be for two years, with a possible extension for a third year. Applicants should send a curriculum vitae, bibliography and statement of research interests, and arrange to have three letters of recommendation sent to the above address. Electronic submission of application materials as PDF or Postscript files is encouraged (with copies to both slw@uiuc.edu and bwandelt@uiuc.edu). Review of applications will begin immediately. The deadline for applications is the 10 January 2002.

The University of Illinois is an equal opportunity/affirmative action employer.

No. 12448**Planetarium Manager****EL CAMINO COLLEGE****Administration, Room 217****16007 Crenshaw Blvd.****Torrance, CA 90506****Tel: 310-660-3807***Attention: Human Resources*

Science teachers with a passion for and knowledge of astronomy are encouraged to apply for the Planetarium Manager position at El Camino College.

The Planetarium Manager is responsible for designing, publicizing and presenting educational, engaging, and entertaining shows in the planetarium and observatory for students in grades 3-12 and the community, developing and constructing astronomical demonstrations and displays for a variety of populations (college students, K-12 students, community) as part of the outreach programs at the college, working with astronomy faculty and staff to expand the astronomy program, including a science series for the community, articles in local and national publications, public laser shows, coordinating efforts to maintain and acquire equipment and supplies for the planetarium and observatory, and representing the astronomy department at local, regional and national meetings for science educators and astronomers.

Additional information is posted on the college webpage (<http://www.elcaminocollege.org>). Interested individuals, contact Human Resources at the above address. AAE/EOE.

No. 12449

Tenure Track Assistant Professor - Astronomy

DEPARTMENT OF PHYSICS, SAN JOSE STATE UNIVERSITY

One Washington Square

San Jose, CA 95192-0106

Tel: 408-924-5210

FAX: 408-924-2917

Attention: Dr. Leslie Tomley, Chair, Faculty Search Committee (Please reference JRN#000338 in all correspondence)

Applications are invited for a tenure-track assistant professor position in Astronomy. Candidates should have Ph.D. in Astronomy or Astrophysics and experience teaching undergraduate courses in Astronomy. Expertise in observational astronomy is preferred. The principal teaching responsibility is in General Education astronomy but participation in undergraduate physics lectures and labs is anticipated. Scholarship in astronomy, including research, publication and external funding, is also expected. Salary range is commensurate with qualifications and experience. Candidates should submit letter of application, CV, statements of teaching/research interests, and names of three people who can specifically address the candidate's expertise in teaching and potential for research in a non-majors, non-graduate program, to Chair, Search Committee, at the above address. All application materials must be received by 1 February 2002. Please reference JRN#000338 in all correspondence. Reasonable accommodations are made for applicants with disabilities. AAE/EOE.

No. 12450

Postdoctoral Positions in Theoretical/Computational Astrophysics

UNIVERSITY OF NOTRE DAME

Dept. of Physics

225 Nieuwland Science Hall

Notre Dame, IN 46556

Tel: 219-631-9639

FAX: 219-631-5952

Email Inquiries: dbalsara@nd.edu

Attention: Dinshaw Balsara, Prof.

The Center for Astrophysics at the Univ. of Notre Dame invites applications for one or more postdoctoral positions in theoretical and computational astrophysics. A general interest in the areas of star formation, interstellar medium, turbulence etc. is desirable but strong applicants from any area will be considered. Prior experience in carrying out astrophysical simulations will be held to be an asset as the projects do involve high performance computation. Knowledge of object-oriented programming either in C++ or F90 is also desirable. The group has its own PC cluster as well as access to supercomputers at the university and national level. The projects are all science-oriented and the positions would give the successful applicant an excellent opportunity to work at the cutting edge of computational astrophysics.

Applicants should send a CV, list of publications and a statement of research interests to the above-mentioned address. Applicants should also arrange for three letters of recommendation to be sent to D. Balsara. We will start considering completed applications by 15 January 2002 but applications received thereafter will also be considered.

No. 12453**Columbia Cosmology Postdoctoral Fellowships****COLUMBIA UNIVERSITY****Columbia Astrophysics Laboratory****550 W. 120th St.****New York, NY 10027****Tel: 212- 854-7899****FAX: 212-854-8121****Email Submission Address: arlin@astro.columbia.edu****Email Inquiries: arlin@astro.columbia.edu****URL: <http://www.iscap.columbia.edu>***Attention: Arlin Crotts, Associate 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. Please send these materials to the address above by 2002 1 February 2002. AAE/EOE.

No. 12454**Postdoctoral Research Position, Quasar Jets****MIT CENTER FOR SPACE RESEARCH****Center for Space Research**

NE80-6031**Cambridge, MA 01239****Tel: 617-253-8573****FAX: 617-253-8084****Email Submission Address: hermanm@space.mit.edu****Email Inquiries: hermanm@space.mit.edu***Attention: Herman L. Marshall,*

The MIT Center for Space Research has an opening for a postdoctoral research associate to support the analysis of X-ray images of quasar jets obtained with the Chandra X-ray Observatory and optical images obtained with the Magellan telescope. The main objectives are to measure the spectral energy distributions of knots in quasar jets and to determine the dominant mechanisms that generate X-ray emission in jets. Specific tasks include X-ray data reduction, image analysis, and X-ray spectroscopy using instruments such as the Chandra ACIS or ASCA CCD detectors and tools such as CIAO, sherpa, IDL, and xspec. The candidate should have a strong background in observational astronomy, preferably in X-ray data analysis and image analysis of quasar jets, and proven ability to conduct independent research. The position requires a Ph.D. in Astronomy, Physics, or closely related field. Qualified applicant should send their resumes and three letters of reference to Dr. Herman L. Marshall at the above address by 15 February 2002. AAE/EOE.

No. 12455**Research Astrophysicist - Research in Stellar and Interstellar Plasmas (Starting at \$45,117/yr)****SMITHSONIAN ASTROPHYSICAL OBSERVATORY****60 Garden Street MS 17****Cambridge, MA 02138****Email Submission Address: saoresumes@cfa.harvard.edu****URL: cfa-www.harvard.edu***Attention: Jean Jesensky, Human Resources Specialist*

Applications are invited for a Research Astrophysicist to participate with Dr. Nancy Brickhouse in a research program on stellar and interstellar plasmas with emphasis on x-ray emission lines. This is an excellent opportunity for candidates seeking a postdoctoral research position.

The research also incorporates studies of infrared, optical, ultraviolet, and extreme ultraviolet spectra of these plasmas. The investigation will test the applicability and accuracy of available plasma emission models for analyzing and interpreting high energy spectra. The overall aims of the project are to improve physical models of the emitting regions and to assess the needs for more accurate inputs, particularly atomic data needs. The work includes data reduction and analysis of spectral data from Chandra, XMM-Newton, FUSE, and others for stellar coronae and other collisionally ionized astrophysical sources; developing, and verifying data analysis software; preparing papers for publication; and presenting research results at conferences.

Candidates must possess, at a minimum, a Master's or equivalent (Ph.D. is preferred) in astronomy, physics, astrophysics, or a related field, or comparable experience. Also required are knowledge of plasma emission modeling, particularly for collisionally ionized sources; knowledge of spectroscopic data reduction and analysis techniques; ability to develop and utilize scientific software for data analysis and modeling; familiarity with relevant atomic processes; and ability to communicate scientific results and to work with others in a scientific

program.

The initial appointment will be for up to two years, with possibility of extension.

More information can be obtained at <http://cfa-www.harvard.edu/cfa/hr/postings/22-03.htm>

Interested applicants should forward curriculum vitae, bibliography, a brief description of research interests, and the names, addresses, email addresses, and telephone numbers of three professional references.

The Smithsonian Astrophysical Observatory is an equal opportunity employer committed to diversity in our workplace.

No. 12456

Research Astrophysicist - Research in Galaxies and Clusters of Galaxies (Starting at \$45,117/yr)

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

60 Garden Street MS 17

Cambridge, MA 02138

Email Submission Address: saoresumes@cfa.harvard.edu

URL: cfa-www.harvard.edu

Attention: Jean Jesensky, Human Resources Specialist

Applications are invited for a Research Astrophysicist in our High Energy Astrophysics Division to participate in the study of galaxies and clusters of galaxies. This is an excellent opportunity for candidates seeking a postdoctoral research position.

The position involves the analysis and interpretation of data principally from Chandra and XMM. Data from other wavebands may be employed as needed.

Candidates must possess, at a minimum, a Master's or equivalent (Ph.D. is preferred) must have experience in observational research related to galaxies or clusters of galaxies and in the in astronomy, physics, astrophysics, or a related field, or comparable experience, and the analysis of data, especially from X-ray missions. To carry out the required research tasks successfully, candidates must have familiarity with modern computer techniques, demonstrated ability to communicate and work with other scientists, and the ability to prepare material for publication and presentation at meetings.

The initial appointment will be for up to one year, with possibility of extension.

A more detailed vacancy announcement can be obtained at <http://cfa-www.harvard.edu/cfa/hr/postings/22-12.htm/>.

For technical information please contact Dr. J. M. Vrtilik (617-495-7127; jvrtilek@cfa.harvard.edu) or Dr. L. P. David (617-495-7245; ldavid@cfa.harvard.edu).

Interested applicants should forward curriculum vitae, bibliography, a brief description of research interests, and the names, addresses, email addresses, and telephone numbers of three professional references. Applications received by 30 January 2002 will be given first consideration.

The Smithsonian Astrophysical Observatory is an equal opportunity employer committed to diversity in our

workplace.

No. 12457

**Research Astrophysicist on ChaMP Extragalactic Survey Team (Starting at \$45,117/yr)
SMITHSONIAN ASTROPHYSICAL OBSERVATORY**

60 Garden Street MS 17

Cambridge, MA 02138

Email Submission Address: saoresumes@cfa.harvard.edu

URL: cfa-www.harvard.edu

Attention: Jean Jesensky, Human Resources Specialist

Applications are invited for a Research Astrophysicist to join the Chandra Multi-wavelength Project (ChaMP) extragalactic survey team in our High Energy Astrophysics Division. This is an excellent opportunity for candidates seeking a postdoctoral research position.

The ChaMP will find thousands of active galaxies, about a hundred galaxy clusters many at high redshift, as well as otherwise "normal" galaxies. ChaMP will thus address a wide range of key science questions in many areas including the Cosmic X-ray Background, active galaxy population and clustering studies, luminosity functions and evolution, the search for new classes of X-ray sources in seemingly normal galaxies, cluster evolution and cosmology.

The successful candidate will work with Drs. Belinda Wilkes and Paul Green, primarily with the ChaMP optical imaging analysis team, to oversee and maintain data reduction and analysis procedures and their operation on the large amount of optical imaging data in-hand; to write observing proposals, and attend observing runs on NOAO, SAO and other telescopes as needed. Tasks will also include interaction with the ChaMP X-ray analysis team to determine optical identifications and to assist in development of a database for the ChaMP data and results.

Candidates must possess, at a minimum, a Master's or equivalent (Ph.D. is preferred) in astronomy, physics, astrophysics, or a related field, or comparable experience, and a strong scientific interest in working in this area. Experience in observation and analysis of optical imaging data and in surveys and catalogs is also required. We are particularly interested in candidates with extensive experience in optical imaging photometry, ideally using the MOSAIC imagers, and preferably working on surveys. Experience with data analysis at X-ray or infrared wavelengths is also desirable.

The initial appointment will be for up to two years, with possibility of extension.

More information can be obtained at <http://cfa-www.harvard.edu/cfa/hr/postings/22-13.htm/>.

Please forward curriculum vitae, bibliography, and names, addresses, telephone numbers, and email addresses of three professional references to the above address.

Key personnel will be available at the 199th AAS meeting in Washington, DC to interview interested candidates.

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

No. 12458

Research Astrophysicist - Research in Properties of AGN (Starting at \$45,117/yr)

SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street MS 17
Cambridge, MA 02138
Email Submission Address: saoresumes@cfa.harvard.edu
URL: cfa-www.harvard.edu

Attention: Jean Jesensky, Human Resources Specialist

Applications are invited for a Research Astrophysicist in our High Energy Astrophysics Division to participate in a research program studying properties of AGN and quasars using Chandra, XMM and HST data, together with the radio data. This is an excellent opportunity for candidates seeking a postdoctoral research position.

This study involves theoretical work related to emission processes in quasars, shock acceleration, jets physics and the intergalactic medium. The Research Astrophysicist will be involved in implementing theoretical programs; analyzing and interpreting data obtained with Chandra, XMM, HST, and ground-based facilities; and publishing significant scientific results.

Candidates must possess, at a minimum, a Master's or equivalent (Ph.D. is preferred) in astronomy, physics, astrophysics, or a related field, or comparable experience. Also required are knowledge of observational and/or theoretical research in quasars and/or experience with data analysis, preferable at more than one wavelength; ability to develop observing proposals and/or modeling; ability to develop and utilize scientific software for data analysis and modeling; familiarity with instrumentation; and ability to communicate scientific results and to work with others in a scientific program.

The initial appointment will be for up to two years, with possibility of extension.

More information can be obtained at <http://cfa-www.harvard.edu/cfa/hr/postings/22-14.htm/>.

Interested applicants should forward curriculum vitae, bibliography, a brief description of research interests, and the names, addresses, email addresses, and telephone numbers of three professional references.

The Smithsonian Astrophysical Observatory is an equal opportunity employer committed to diversity in our workplace.

No. 12462
Postdoctoral Research Fellow in Astrophysics
UNIVERSITY OF ST ANDREWS
Personnel Services
College Gate, North Street
St.Andrews, Fife KY16 9AJ
Scotland, UK
Tel: +44-1334-462-571
FAX: +44-1334-462-570
Email Submission Address: Jobline@st-and.ac.uk
Email Inquiries: kdh1@st-and.ac.uk
URL: star-www.st-and.ac.uk/astronomy/

Attention: Job ref no SK071/9291/01,

A postdoctoral position is available in the School of Physics and Astronomy for research in one of the following areas: (1) Extra-solar Planets, (2) Interacting Binaries, (3) Active Galactic Nuclei.

You must have a PhD, familiarity with current issues in the relevant research area, and ability to pursue independent research as evidenced by a record of publications. Salary, on the RA1A scale, is 17,451 - 26,229 pounds per annum, depending on age and experience. Initial appointment will be for up to 16 months with extensions to 3 or exceptionally 4 years depending on continuation of PPARC funding.

Please request application packs from Personnel Services, quoting job reference SK071/9291/01. 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: 10 January 2002.

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

The University operates Equal Opportunities and No Smoking Policies.

No. 12463

Post Doctoral Research Associate in X-ray Astronomy

UNIVERSITY OF VIRGINIA

Department of Astronomy

P.O. Box 3818

Charlottesville, VA 22903-0818

Tel: 1-434-924-4903

FAX: 1-434-924-3104

Email Submission Address: sarazin@virginia.edu

Email Inquiries: sarazin@virginia.edu

URL: <http://www.astro.virginia.edu/~cls7i/>

Attention: Craig L. Sarazin,

Applications are invited for a postdoctoral research associate position in X-ray astronomy at the University of Virginia. The position will involve the analysis of data from X-ray observations with Chandra, XMM, ROSAT, and ASCA, in collaboration with Craig Sarazin. The X-ray observations will be focussed mainly on clusters of galaxies and elliptical galaxies, but may also involve X-ray observations on other classes of objects, such as supernova remnants, globular clusters, or spiral galaxies. The position may also involve the analysis of related optical, UV, and radio observations. It is likely that the successful applicant will also collaborate on the preparation of proposals for additional observations. The position is initially for two years, with a possible extension for a third year. I would like the person to start as soon as possible after the application deadline, but no later than September 2002.

Applicants should send a curriculum vitae, a publication list, and a letter outlining relevant interests and experience, and arrange to have three letters of recommendation sent to the above address. Complete applications should be received by 15 January 2002 for full consideration. Women and minorities are encouraged to apply.

No. 12464

The Firestone Postdoctoral Fellowship 2002

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

Center for Astrophysics

**60 Garden Street, Mail Stop 47
Cambridge, MA 02138**

Attention: Secretary, Firestone Fellowship Committee

This new postdoctoral research fellowship, funded by the Roger S. Firestone Foundation, will be available at the MMT Observatory (MMTO) near Tucson, Arizona, U.S.A., beginning in the summer or autumn of 2002. The MMTO is a joint facility of the Smithsonian Astrophysical Observatory (SAO) and the University of Arizona. SAO is a member of the Harvard-Smithsonian Center for Astrophysics (CfA), whose main offices are in Cambridge, Massachusetts.

About the Firestone Postdoctoral Fellowship: the duty station for the two-year Firestone Postdoctoral Fellowship will be at the MMT Observatory. Occasional travel to Cambridge may be necessary. We are searching for a young investigator with a background in instrumentation and/or advanced data processing to assist in the commissioning and optimization of a suite of new instruments, designed and built at SAO, that will be mounted on the 6.5-m telescope at the MMTO. Three instruments, a large mosaic optical imager and two bench-mounted fiber-fed spectrographs will be mounted on the telescope for the first time in early 2002.

Information on these instruments can be found at:

<http://cfa-www.harvard.edu/~dfabricant/mmtinstruments.html>. Information on the MMTO can be found at: <http://cfa-www.harvard.edu/mmthome>.

The Firestone Fellow will participate in the commissioning runs and in efforts to document the instruments' performance and devise optimal observing strategies in collaboration with scientists and engineers at SAO and MMTO. The two-year duration of the position will allow the optimization of the new instrumentation to be completed and a significant scientific payback will be realized by the Fellow, who can expect to establish a collaborative stake in at least one large project to be carried out with the new instruments. In addition, the Fellow will have competitive access to the SAO telescopes. The position offers the combination of access to a large telescope, very modern instrumentation and collaboration with some of the best researchers in their fields.

Ph.D. recipients in any of these fields, with interests in observation, instrumentation and/or laboratory research, are invited to apply. We are particularly seeking applicants having experience with modern astronomical instrumentation and advanced data processing including, but not limited to, large mosaic imaging and multi-object spectroscopy.

The appointment is for two years, contingent upon availability of funds. Stipend for the 2002-2003 year will be approximately \$44,000. An annual research budget of approximately \$12,000 will be available for the appointee.

Application forms and instructions can be obtained at <http://cfa-www.harvard.edu/firestone> and are also available in hard copy upon request to postdoc@cfa.harvard.edu. Applications are due by 15 February 2002, and should be mailed to Secretary, Firestone Fellowship Committee at the above address.

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

New Jobs This Month

No. 12467

Research Fellow in Solar Physics

CALTECH

Mail stop 264-33
Pasadena , Ca 91125
Tel: 626 395 3857
FAX: 626 395 3814
Email Submission Address: hz@caltech.edu
Email Inquiries: hz@caltech.edu
URL: <http://goldilocks.caltech.edu>

Attention: hz@caltech.edu, Professor Emeritus

Solar physics PhD to investigate:

- 1.Data from SRBL and other radio spectrographs to investigate the relation between burst spectra and other parameters and Sun-Earth effects.
- 2.Past magnetograph records from Big Bear Solar Observatory to detect magnetic field changes in solar flares. See Sammis and Cameron, 1999ApJ...525L..61C. for example. The observatory has 25 years of data that can be searched.
- 3.Collaborate with group scientists in investigations of complex sunspot fields. Caltech is an equal opportunity employer.

No. 12468
Assistant Professor of Physics and Astronomy
ST. CLOUD STATE UNIVERSITY
720 4th Ave. S., MS 324
St. Cloud, MN 56301-4498
Tel: 320-255-2011
FAX: 320-255-4728

Attention: Search Committee Chair

The Department of Physics, Astronomy, and Engineering Science at St. Cloud State University invites applications for one, and possibly two additional tenure-track positions. Initial appointment is expected to be at the Assistant Professor level, although candidates with exceptional qualifications may be considered for higher rank. Salary will be commensurate with qualifications and experience. A Ph.D. in Physics or a related field is required. Preference will be given to experimentalists with research and/or teaching experience beyond the Ph.D. who can contribute to an established optics program. The successful candidate will be expected to teach undergraduate courses in the department at the introductory, advanced, and general education levels. The appointee will also be expected to conduct research involving undergraduate students and to seek external funding to support that research. Send a letter of application and resume, and have three letters of reference sent to Search Committee Chair. Applications and letters of references must be postmarked by January 28, 2002, with appointment to begin 26 August 2002. SCSU is committed to excellence and actively supports cultural diversity. To promote this endeavor we invite individuals who contribute to such diversity, including minorities, women, GLBT, persons with disabilities and veterans.

No. 12469
Postdoctoral Position in Interstellar/Intergalactic Medium Studies
SPACE TELESCOPE SCIENCE INSTITUTE

**3700 San Martin Drive
Baltimore, MD 21218**

Attention: Human Resources

Applications are invited for a postdoctoral position in interstellar and intergalactic medium studies at the Space Telescope Science Institute. The appointment with Dr. Kenneth Sembach will focus on understanding the properties of diffuse ionized gas in Galactic environments and the baryonic content of the low-redshift Universe. The successful applicant is expected to have strong interests in the physical processes occurring within the interstellar media of the Milky Way and other galaxies, the chemical evolution of the low-redshift intergalactic medium, and high resolution spectroscopy. Experience in the reduction, analysis, and scientific presentation of spectroscopic or imaging data from ground or space-based observatories is essential. The appointee will also have the opportunity to pursue other personal research interests in addition to those related to the above subjects.

Qualified applicants must have a Ph.D. in astronomy or closely related field. The beginning date of the appointment is flexible but is expected to begin between 1 June 2002 and 15 September 2002. The appointment will be for a minimum of one year, with renewal contingent upon performance and funding availability.

STScI, located on Johns Hopkins University Campus in Baltimore, Maryland, offers an excellent benefit package, competitive salaries, and a stimulating work environment. Relocation assistance is available. The minimum salary is \$41,900; however, STScI's pay is commensurate to the year of Ph.D.

Applicants should send a cover letter with position applying for, curriculum vitae, list of publications, short description of research interests, and three confidential letters of recommendation to the below address by 15 February 2002. Completed applications received by 15 February 2002 are assured full consideration. Women and minority candidates are urged to apply. EOE/AA/M/F/D/V.

No. 12470
Technical Staff Member in Theoretical Astrophysics
LOS ALAMOS NATIONAL LABORATORY
P.O. Box 1663, MS B288
Los Alamos, NM 87545
Tel: 505-667-3747
FAX: 505-665-3003
Email Submission Address: wam@lanl.gov
Email Inquiries: clf@t6-serv.lanl.gov

Attention: Dr. Warner Miller, T-6 Group Leader

The Theoretical Astrophysics group (T-6) at Los Alamos National Laboratory seeks candidates for one or more staff positions in theoretical astrophysics. The positions are offered at the Limited-Term Staff Member level although a more senior appointment may be possible. We will consider candidates with backgrounds and interest in all areas of theoretical astrophysics, general relativity and cosmology.

The environment in Los Alamos encourages collaboration between groups and divisions allowing researchers in astrophysics to take advantage of the wide range of expertise in physics at the lab. We are seeking candidates who are able to direct their own research and take advantage of both this expertise and freedom. T-6 is building strong ties with a number of universities which provide graduate mentoring possibilities and joint positions

with universities is common.

All candidates should write to the address below, describing their research interests and goals. Each application should also include a curriculum vitae and the names and addresses of three or more individuals who will provide letters of recommendation. Please arrange to have such letters sent to the address below. All candidates should indicate citizenship and, in the case of non-US citizens, describe their visa status. Applications will be accepted until the positions are filled. Send all applications to Dr. Warner A. Miller, T-6, MS-B288 at the above address. AAE/EOE.

No. 12471

Postdoctoral and Senior Research Awards

NATIONAL RESEARCH COUNCIL

2101 Constitution Ave NW

Washington, DC 20418

Tel: 202-334-2760

FAX: 202-334-2759 E-mail: rap@nas.edu

Attention: Associateship Programs, TJ 2114

The National Research Council is accepting applications for independent research to be conducted in participating US government laboratories. Laboratories include:

Aerospace Corporation
 Air Force Research Laboratory
 National Oceanic and Atmospheric Administration
 Naval Research Laboratory
 NASA Ames Research Center
 NASA Astrobiology Institute
 NASA Dryden Flight Research Center
 NASA Goddard Space Flight Center
 NASA Jet Propulsion Laboratory
 NASA Johnson Space Center
 NASA Marshall Space Flight Center
 NASA Stennis Space Center

Qualified applicants must hold or expect to receive the Ph.D. or other equivalent research doctorate. Applicants design their own research projects to be compatible with the overall interests of the sponsoring laboratory. Each award is for one year with possible renewal for a total of three years maximum. Stipends range from \$34,000 to \$61,000 for recent Ph.D. recipients and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance. Awards are competitive with application deadlines of 15 January, 15 April and 15 August.

An NRC representative will be available in the AAS Job Center at the AAS meeting in Washington, DC, January 7-10, 2002.

Application materials may be obtained from the NRC Web site at www.national-academies.org/rap For questions or assistance, contact the NRC at the above address. AAE/EOE.

No. 12472

Postdoc in Computational Astrophysics

NORTH CAROLINA STATE UNIVERSITY**Dept. of Physics****Raleigh, NC 27695-8202****Tel: 919-515-7096****Email Submission Address: john_blondin@ncsu.edu****Email Inquiries: john_blondin@ncsu.edu***Attention: John Blondin*

The North Carolina State University Department of Physics invites applications for a postdoctoral research associate position in computational astrophysics to work on the modeling of core-collapse supernovae and related phenomena. We are particularly interested in applicants with experience in the numerical modeling of magnetohydrodynamic flows. The appointment will be for three years, with the possibility of renewal. A Ph.D. in astrophysics or a related field and experience in numerical simulations are required. For consideration, submit a resume, publications list, and the names of three references to Dr. John M. Blondin at the above address. Review of applications will begin immediately, but no final decision will be made prior to 01/31/02. AAE/EOE.

No. 12473**Postdoctoral Position in Observational Star Formation****THE UNIVERSITY OF FLORIDA****Department of Astronomy****211 Bryant Space Science Center****Gainesville, FL 32611****Tel: 352-392-2052 ext 214****FAX: 352-392-5089****Email Inquiries: lada@astro.ufl.edu***Attention: Elizabeth Lada, Professor*

The Department of Astronomy at the University of Florida, Gainesville invites applications for a postdoctoral position in observational studies of star formation. The successful applicant will work closely with a team of astronomers at UF, CFA and ESO. The Postdoc's primary responsibility will be to oversee a deep wide field near-IR spectroscopic and imaging survey of nearby molecular clouds using the newly commissioned FLAMINGOS wide field near-IR imager and multi-object spectrometer. A key goal of this survey is to study the distribution of star formation within molecular clouds, the origin of the initial mass function and the evolution of circumstellar material. We have been granted 190 nights on the Kitt Peak 4-m and 2.1-m telescopes to complete this program. Additionally, we expect time with FLAMINGOS on the 6.5-m MMT and the 8-m Gemini South Telescopes.

Applicants should have a recent Ph.D. and should preferably have experience with and interest in star formation, reduction of near-IR imaging and multi-object spectroscopic data. The position will begin in fall 2002 and is funded for at least 2 years and up to 4 years pending funding. For further information contact Elizabeth Lada at the above address. Applicants should submit a curriculum vita, bibliography and a statement of research interests, and should arrange for three letters of reference to be sent to the above address. Review of applications will begin on 15 February 2002 and will continue until the position is filled. AAE/EOE.

No. 12474

STELLAR INFRARED ASTROPHYSICS
ASTRONOMICAL INSTITUTE, UNIVERSITY OF AMSTERDAM
Kruislaan 403
Amsterdam, NL-1098 SJ
The Netherlands
Tel: +31-20-5257468
FAX: +31-20-5257484
Email Submission Address: rensw@astro.uva.nl
Email Inquiries: rensw@astro.uva.nl
URL: <http://www.astro.uva.nl/>

Attention: Rens Waters, professor

Applications are invited for a post-doc position in INFRARED astronomy at the Astronomical Institute of the University of Amsterdam for a period of two years, with a possible extension of a third year. The position is offered in collaboration with the Kapteyn Astronomical Institute of Groningen University. Both institutes are involved in the construction and commissioning of the VISIR and MIDI instruments for the Very Large Telescope (VLT) and VLT Interferometer of the European Southern Observatory. The post-doc will play an active role in the commissioning and science programmes of both instruments, in close collaboration with the MIDI and VISIR teams, in particular with Jan-Willem Pel (Groningen).

The Amsterdam and Groningen institutes are part of the Netherlands Research School for Astronomy (NOVA). Research in the infrared and sub-mm astronomy group in Amsterdam focusses on circumstellar matter; the group consists of two staff, two post-docs and 8 graduate students.

The successful candidate must have completed a PhD in observational astrophysics, preferentially in a field related to circumstellar matter and/or stellar evolution; some experience in operating astronomical instrumentation is preferred. Salary will be commensurate to age and experience. Those interested should send a curriculum vitae, and the names of three persons willing to write a letter of reference, to Rens Waters, at the above address. Contact: Rens Waters or Jan-Willem Pel (pel@astro.rug.nl). Closing date: 28 February 2002.

No. 12475

Research Scientist on Galex, the Galaxy Evolution Explorer
CNRS - LABORATOIRE D'ASTROPHYSIQUE DE MARSEILLE
Traverse du Siphon
BP 8
13376 Marseille Cedex 12
France
Tel: 33-491-055942
FAX: 33-491-055942
Email Submission Address: Bruno.Milliard@astrsp-mrs.fr
Email Inquiries: Bruno.Milliard@astrsp-mrs.fr
URL: <http://www.astrsp-mrs.fr>

Attention: Bruno MILLIARD, Dr.

Applications are invited for a Postdoctoral position in observational astrophysics on GALEX, the Galaxy

Evolution Explorer, at the Laboratoire d'Astrophysique de Marseille (LAM), France. GALEX, planned for launch May, 2002, is a NASA mission with a French contribution funded by CNES. Appointment is contingent on completion of Ph.D. Appointment is for one year, and is renewable twice (Start date between April 1st and October 1st 2002).

The GALEX instrument is a 50-cm telescope operating in the far and near-ultraviolet (135-300 nm) with both imaging and spectroscopic capabilities. A principal scientific goal of GALEX is to map the history and probe the causes of star formation out to redshift $z=2$, when most stars, elements, and galaxy disks were formed.

Applicants should propose research programs resting on GALEX data. They are expected to work in collaboration with the GALEX group at LAM, and in interaction with other GALEX science team members. The interests of the LAM group include star formation, UV extinction, galaxy evolution, their links to environmental effects and large scale structure, as well as evolved populations and the IGM. The successful applicant will also be expected to contribute to analysis of GALEX science data and development of science analysis tools. Opportunities for corollary research are available through CFHT and ESO's astronomical facilities including those at Paranal Observatory.

Applications including a brief statement of research interests, relevant work experience, curriculum vitae, and three letters of reference should reach LAM before 1 March 2002.

No. 12476

Assistant Professor in Theoretical Astrophysics

UNIVERSITY OF WISCONSIN, MADISON

Department of Physics

1150 University Avenue

Madison, WI 53706

Email Submission Address: physics@madmail.physics.wisc.edu

URL: <http://www.physics.wisc.edu/>

Attention: Don Reeder, Chair

The Department of Physics, University of Wisconsin-Madison invites applications for a tenure track assistant professor position in theoretical astrophysics, to begin in August 2002. Commitment to teaching at the graduate and undergraduate levels is expected. We encourage applicants with broad interests, which might include nuclear, gravitational, X-ray, gamma-ray, cosmic-ray, neutrino, or particle astrophysics or cosmology, and a desire to interact with the strong experimental groups in the department in several of these areas.

Applicants should submit a letter of application outlining their qualifications and interests with a resume and publications list and arrange to have at least three letters of reference sent to Don D. Reeder, Chair, by 1 February 2002. The material submitted should provide evidence of teaching skills and the ability to carry out an independent research program. The University of Wisconsin-Madison especially encourages women and underrepresented minorities to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. AAE/EOE.

No. 12477

Postdoctoral Position, Observational Astronomer/Adaptive Optics Systems

THE UNIVERSITY OF ILLINOIS

Department of Astronomy

1002 W. Green Street

Urbana, IL 61801
Tel: 217-244-1077
FAX: 217-244-7638

Attention: Laird Thompson

Applications are invited for a postdoctoral research position in the Department of Astronomy at the University of Illinois. The successful candidate will work both independently and with Prof. Laird Thompson on astronomical observations obtained with adaptive optics systems. Special emphasis will be placed on using the UNISIS laser guided adaptive optics system at the Mt. Wilson 2.5-m telescope, but complimentary observations from other adaptive optics systems can be part of the research effort. Special consideration will be given to applicants with prior experience in observational astronomy research that includes the use of adaptive optics systems.

This position is funded through the Advanced Technologies and Instrumentation branch of the National Science Foundation. The initial appointment will be for two years, with the possibility of a third year given adequate progress. The targeted start date is Spring or Summer 2002 and is negotiable. Applicants must have completed all requirements for their Ph.D. degree prior to the start of employment. Interested individuals should submit a research statement, resume, and publication list to the address below. Applicants should also arrange to have three letters of recommendation sent directly to Prof. Thompson. Full consideration will be given to those applications received by 15 February 2002. Additional information can be found at <http://www.astro.uiuc.edu/~thompson/postdoc/>. AAE/EOE.

No. 12478
Information Technology Engineer
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive
Baltimore, MD 21218
Email Submission Address: resume@stsci.edu

Attention: Human Resources

Become part of the dynamic Space Telescope Science Institute (STScI) team. We manage the science operations of the Hubble Space Telescope, which has brought us new information about the universe. You can join this world-renowned organization as we go forward in bringing the cosmos to Earth.

The Application Software Team has an immediate need for an Information Technology or Senior Information Technology Engineer to provide application software solutions, training and support, especially in the Microsoft Windows environment. You will evaluate new software products and technologies, and develop and maintain the applications support infrastructure. As a member of the AST team, you will also contribute to providing cross-platform solutions.

You should have a minimum of 3 years experience in information technology including in-depth knowledge of the Windows operating system and a working knowledge of business administration applications, software engineering applications or astronomical research applications. Experience with other operating systems is a plus. You should be skilled in problem diagnosis and resolution and customer service. A Bachelor's degree and good written and verbal skills are required.

STScI, located on the Johns Hopkins University Homewood campus, offers an excellent benefits package,

including 24 vacation days, competitive salary, and a stimulating work environment. Relocation assistance is available. The minimum salary for the Info Tech Eng is \$43,478 and the minimum salary for the Sr. Info Tech Eng is \$50,167; however STSci's pay is commensurate to the level of experience and education. Resumes received by January 15, 2002 will receive full consideration.

Qualified candidates are requested to mail or e-mail resume, salary history, referral source and position applying for to Human Resources at the above address or to resume@stsci.edu. Women and minorities are strongly encouraged to apply. EEO/AA/M/F/D/V. Visit our website at www.stsci.edu.

No. 12479

Postdoctoral position in Theoretical Astrophysics

INSTITUTE OF THEORETICAL PHYSICS UNIVERSITY OF ZURICH

Winterthurerstrasse 190

Zurich, CH-8057

Switzerland

Tel: +41-1-6355819

FAX: +41-1-6355704

Email Submission Address: jetzer@physik.unizh.ch

Attention: Ph. Jetzer, Prof.

Application are invited for a postdoc position in theoretical astrophysics at the institute of theoretical physics of the University of Zurich. The position is for two years starting fall 2002.

Present fields of interest are gravitational microlensing and clusters of galaxies ((dark matter, SZ, etc.)). Applicants whose research interest match well with the ongoing research program will be given preference.

Candidates should have a PhD in Astronomy/Astrophysics or physics. Applicants should send a CV, list of publications, a brief statement of reserach interests and arrange for three letters of recommendation to be sent before 30 January 2002.

No. 12480

Postdoctoral Research Associate in Extragalactic X-Ray Astronomy

CARNEGIE MELLON UNIVERSITY

Physics Department

Pittsburgh, PA 15213-3890

Tel: 412- 268-1886

FAX: 412- 681-0648

Email Submission Address: griffith@astro.phys.cmu.edu

Email Inquiries: griffith@astro.phys.cmu.edu

URL: <http://astro.phys.cmu.edu/~griffith>

Attention: Richard E. Griffiths, Professor of Physics

The Astrophysics group at Carnegie Mellon University (see <http://astro.phys.cmu.edu>) invites applications for the position of Post-Doctoral Research Associate to work in the area of observational extragalactic X-ray astronomy, in particular on the analysis of data from CXO and XMM-Newton. The incumbent will join the expanding astrophysics group at CMU which concentrates on observational cosmology, and s/he will work with

Prof. Richard Griffiths, a Mission Scientist for XMM and Co-Investigator for the AXAF CCD Imaging Spectrometer, ACIS (see <http://astro.phys.cmu.edu/~griffith>). Griffiths has also been Principal Investigator for the HST Medium Deep Survey and a member of the HST-WFPC2 science team.

Research interests of the successful candidate will preferably be in the spectra and evolution of extragalactic X-ray sources. The position is available in Fall 2002, and may be renewable annually for up to three years, contingent on the availability of appropriate funding. Interested candidates should send an application consisting of a curriculum vitae, bibliography and a description of research experience and interests to Professor Richard E. Griffiths, at the above address. Applicants should also arrange to have at least three letters of recommendation sent to the same address.

Minorities and women are encouraged to apply. AAE/EOE.

No. 12481

Postdoctoral Position in Radioastronomy

CENTRE DE DONNEES ASTRONOMIQUES DE STRASBOURG (CDS)

11 rue de l'universite

Strasbourg, 67000

France

Tel: 33- 0-3-90-24-24-76

FAX: 33-0-3-90-24-24-32

Email Submission Address: genova@astro.u-strasbg.fr

Email Inquiries: genova@astro.u-strasbg.fr

URL: <http://cdsweb.u-strasbg.fr/CDS.html>

Attention: Francoise Genova, Director

The Centre de Donnees astronomiques de Strasbourg (CDS) develops services used by astronomers worldwide (SIMBAD, VizieR, Aladin). CDS invites applications for a postdoctoral position in radioastronomy, to contribute to its evolution in view of future large observing projects, in particular ALMA and Herschel-FIRST/Planck.

The successful candidate will implement into the CDS services the tools and data necessary for accompanying present and future research in the radio domain, in particular for ALMA, in collaboration with project scientists. He or she will also update the contents of the CDS services in the domain of centimetric and millimetric data (identifying and entering new data in SIMBAD, importing catalogues in VizieR and images in Aladin).

The postdoctoral fellow will dedicate 50% of his/her time to this service-oriented activity, and the other 50% to personal research in collaboration with one of the teams of the Observatoire de Strasbourg. The main topics covered at the Observatory are:

- dynamics and evolution of galaxies (including the Galaxy)
- high energy astrophysics
- stellar populations
- methods for information management and information retrieval.

The position is a one-year appointment, renewable for a second year. A PhD in radioastronomy is required. Applicants are invited to submit a CV and a statement of their previous experience and interest for the position to Dr. Francoise Genova at the above address. They should also arrange to have at least two letters of recommendation sent directly to the same address. The position will remain opened until a suitable candidate is

found.

No. 12482

Research Scientist (Planetary Science)

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Rd

San Antonio, TX 78228-0510

Tel: 210-522-2223

FAX: 210-522-3990

Email Submission Address: apply@swri.org

URL: www.swri.org

Attention: Ann Davis, Specialist

Conduct research in planetary atmospheric science of national and international stature; write NASA, NSF and other proposals to support personal program activities; collaborate with members of the Space Science community; publish scientific results in peer-reviewed scientific journals. Requires a PhD in Physics, Astrophysics, Atmospheric Science, Astronomy or equivalent and 2 years of experience. Must have strong interest and expertise in planetary atmospheric science; ability to succeed in peer-reviewed funding. NOTE: Work assignment is at Boulder, Colorado. AAE/EOE.

No. 12483

Post-Doctoral Position in Gravitational Wave Science

JET PROPULSION LABORATORY/CALIFORNIA INSTITUTE OF TECHNOLOGY

4800 Oak Grove Drive

Pasadena , California 91109

Attention: Dr. Thomas Prince, Chief Scientist

The Jet Propulsion Laboratory (JPL) is a federally-funded research and development center, operated for NASA by the California Institute of Technology and located in Pasadena, California. In the process of expanding its gravitational wave science program JPL is accepting applications for post-doctoral scholars in this area.

Gravitational wave science at JPL is being expanded to encompass phenomenology of astrophysical sources; analyses of source dynamics and gravitational wave emission using numerical simulations, approximate solutions of Einstein's equations and other numerical and analytic techniques; development of gravitational wave search algorithms; and extraction of the astronomical information gravitational waves carry. Missions in progress or under development are low-frequency gravitational wave experiments using Doppler tracking of spacecraft and the Laser Interferometer Space Antenna (LISA).

JPL seeks 2 new post-doctoral scholars in gravitational wave science. Applicants should be qualified in general relativistic gravitation and astrophysics (in particular with interests and experience which can link together source phenomenology and source modeling--analytical and numerical simulation--with JPL's ongoing research in data analysis. They will carry out research in gravitational wave science and also be a resource for the science planning/data reduction and analysis efforts of the LISA project. Appointments are initially for 1 year, possibility renewed up to two additional years.

Applicants should submit a curriculum vitae, statement of research interests, list of publications, and the names and addresses of at least three references to Thomas A. Prince, at the above address.

Women, minorities, veterans and disabled persons are encouraged to apply. AAE/EOE.

No. 12484

Postdoctoral Appointment - Galactic Astronomy

UNIVERSITY OF VIRGINIA

P.O. Box 3818

Charlottesville, VA 22903-0818

Tel: 434-924-4893

FAX: 434-924-3104

Email Submission Address: rjp0i@virginia.edu

Email Inquiries: rjp0i@virginia.edu

Attention: Steven R. Majewski, Associate Professor

Applications are invited for a postdoctoral research appointment with the Space Interferometry Mission Key Project "Taking Measure of the Milky Way". The appointment is at the University of Virginia with a starting date in the Fall of 2002. The appointment would be for one year, with possibility of renewal for more years, subject to favorable half-year reviews and continuing funding availability. The emphasis of the research is on the structure and dynamics of the Milky Way, with specific tasks including observations and analyses related to understanding and creating the optimal target selection for the proposed suite of Key Project experiments, and characterizing these targets prior to SIM launch. The Key Project experiments include: determining the parallax and proper motion of the Galactic center, measuring the proper motions of Galactic satellite galaxies, globular and open clusters, and determining the distribution of dark matter in the Galaxy via mapping of the disk and halo gravitational potentials using Miras, Cepheids, K giants, clusters, and stars in the tidal tails of Galactic satellites. The postdoc would be expected to interact with team members at other institutions, including Princeton University, Institute for Advanced Study, Wesleyan University, IPAC, STScI, MPA-Heidelberg, University of Concepcion and Cambridge University. Observational astronomers are especially encouraged to apply.

Applicants should submit a vita, a statement of research interests and experience, and their bibliography. They should also arrange to have three letters of recommendation sent. Full consideration will be given to completed applications received no later than 1 Feb 2002, or until the position is filled. AAE/EOE.

No. 12485

Postdoctoral Research Fellowship in Extragalactic Astrophysics

THE UNIVERSITY OF NEW SOUTH WALES

School of Physics

Kensington Campus

Old Main Building

Kensington

Sydney 2052

Australia

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

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

URL: <http://newt.phys.unsw.edu.au/astro/>

Attention: Warrick Couch

The School of Physics at the University of New South Wales in Sydney, invites applications for a postdoctoral research fellowship in observational astrophysics. The appointee will be expected to pursue independent research in the general areas of cosmology and extragalactic astrophysics. Some overlap in research interests with those of Prof W Couch (cluster galaxy evolution, 2dF Galaxy Redshift Survey) and Dr C Lineweaver (CMB, large-scale structure) will also be sought.

The Astrophysics Department within the School of Physics (<http://newt.phys.unsw.edu.au/astro>) is an active research group whose interests include cosmology, galaxy evolution, star formation and instrumentation. It is also host to the Australian Gemini Project Office. This position is funded as part of a multi-institutional collaboration to study the formation and evolution of extragalactic objects, involving the Universities of NSW, Melbourne, Sydney and Wollongong, the Australian National University, and the Australia Telescope National Facility.

This is a fixed term position initially for one year, with the possibility of renewal for up to two more years subject to funding. The salary scale is AUD 46,173 - 49,563 (Australian dollars) per annum depending on experience, plus 17% employer superannuation, and relocation expenses (AUD 5,000 maximum). The appointee will also receive AUD 8,000 per annum to cover research expenses. A full position description and selection criteria are available at <http://www.ausgo.unsw.edu.au/wcouch-postdoc.doc>.

Applications should include a CV, a bibliography, and a statement of research interests. They should be sent to the above address by 15 February 2002. Applicants should also arrange for up to three letters of recommendation to arrive at the same address by this date.

No. 12486

Tenure Track Faculty Position(s) - Physics Department

ROCHESTER INSTITUTE OF TECHNOLOGY

85 Lomb Memorial Drive

Rochester, New York 14623-5603

Tel: 585-475-2421

FAX: 585-475-5766

Email Submission Address: pacsps@rit.edu

Email Inquiries: pacsps@rit.edu

URL: <http://www.rit.edu/~674www/>

Attention: Dr. Peter Cardegna, Chair, Physics Department Search Committee

Applications are invited for one or more tenure-track positions in the Department of Physics. The minimum qualifications are a Ph.D. in physics, astronomy or a closely related field, a research focus compatible with the Department's current research topics, evidence of excellence in teaching lecture and laboratory courses, a commitment to sustained research involving undergraduate and graduate students, and familiarity with current trends in undergraduate physics education. The faculty of the Department of Physics participate in the graduate programs in Imaging Science and Materials Science & Engineering and will participate in the proposed Ph.D. program in Microsystems Science and Engineering. Research topics of current interest in the Department are integrated nanopower systems, thin films, magnetic materials, complex (colloidal/macromolecular) fluids, light/thermal neutron scattering spectroscopies, granular materials, observational astronomy, nonlinear dynamics and physics education research. The Department maintains an observatory on campus that is used

primarily for undergraduate astronomy courses and public outreach. We are particularly interested in candidates who can collaborate with researchers in the Nanopower Research Laboratory, the Ph.D. program in Microsystems Science and Engineering, and/or the Center for Imaging Science in one or more of the following areas: electro-optics, integrated optics and optical fabrication technology. A description of the Department of Physics, including a more detailed position announcement outlining the application procedure, are located at <http://www.rit.edu/~674www/>. Women and minority candidates are strongly encouraged to apply. AAE/EOE.

No. 12487

Research Associate, Optical-Infrared Astronomy

THE PENNSYLVANIA STATE UNIVERSITY

Dept. of Astronomy & Astrophysics

525 Davey Lab.

University Park, PA 16802

Tel: 814-865-0418

FAX: 814-863-2842

Email Inquiries: jge@astro.psu.edu

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

Attention: Dr. Jian Ge, Assistant Professor

Applications are invited for a research associate at Penn State to work with Prof. Jian Ge on a number of projects in the areas of such as extra-solar planets and young stellar objects and infrared/optical instrumentation; this position is funded for at least three years. By the start date (Fall of 2002), the candidate must have a Ph.D. in Astronomy, Physics, or a related field. The successful applicant will participate fully in all areas of research, including project development, proposal writing, instrument hardware and software development, observation, data reduction, analysis, and publication. Expertise in extra-solar planets and young stellar objects is highly desired, but not required. Experience in infrared/optical instrumentation (any aspects ranging from electronics, software, mechanics to optics) and observations, data reduction (especially familiar with IDL and IRAF packages) or related theory is also preferred. Strong candidates from any subfield of astronomy will be considered. Annual salary will be commensurate with qualifications and experience. The candidate will have a full coverage of University benefits. To apply, please submit a curriculum vita, a statement of research interests, and have three letters of reference sent to Jian Ge at the address above. Review of applications will start on Feb. 1st. Later applications will be considered until the position is filled. Penn State has a 30% share of the Hobby-Eberly 8-m telescope and research associates can fully access to it. Further information about the department can be found at <http://www.astro.psu.edu>.

No. 12488

Research Associate

THE UNIVERSITY OF ARIZONA

Steward Observatory Business Office

933 N. Cherry Ave.

Tucson, AZ 85721

Tel: 520-621-2371

FAX: 520-621-1532

Email Submission Address: JFACIO@AS.ARIZONA.EDU

URL: www.as.arizona.edu

Attention: Joy Facio, Business Manager

The Center for Astronomical Adaptive Optics (CAAO) seeks applicants for a postdoctoral Research Associate position to work in the areas of multi-conjugate adaptive optics for large telescopes and novel approaches to wavefront sensing. This position carries with it a leadership role for a growing group of graduate and undergraduate students involved in research in wavefront sensing and post-detection analysis of images recovered with adaptive optics. Time up to 25% may be devoted to independent research, which is expected to be related either to the generation or use of high resolution imaging. The appointment will be for an initial period of two years, with possible extension to a third year. For full details see posting at <http://www.as.arizona.edu/> Minimum qualifications are a PhD in astronomy, physics, or a closely related field and three years' experience in the design or analysis of astronomical adaptive optics systems. Some experience with optical design is preferred.

To apply, please submit a current curriculum vitae, a letter describing relevant experience and professional goals, and contact information for three people who are willing to provide letters of reference upon request. Review of materials will begin 1February 2002 and will continue until the position is filled. The University of Arizona is an EEO/AA Employer M/W/D/V.

No. 12489

Stellar Astrophysics

UNIVERSITY OF BRITISH COLUMBIA

Department of Physics and Astronomy 13.9976 36.9946 50tenu14ployersural Road

Vancouver, British Columbia V6T 1Z1

Canada 13.9976 36.9946 50Tel: 604-822-4134

**Email Submission Address: loyher@astro.ubc.ca 13.9976 36.9946 50Email Inquiries: [---

Postdoctoral position in stellar astronomy/astrophysics at the University of British Columbia. In addition to his/her own work, the successful applicant will work with Harvey Royher and Greg Fahlman on a variety of problems related to globular star clusters, dynamics, resolved photometry of nearby galaxies and searches for old white dwarfs. Knowledge of reduction procedures for HST imaging and wide field CCD data a definite asset.](mailto:loyher@ast</p></div><div data-bbox=)**

Please send a CV, research plan and arrange for 3 letters of reference to be sent to Harvey Royher by 31 January 2001. Dr. Royher will be present at the January 2002 AAS meeting and will interview interested candidates.

No. 12490

Three Science Fellows 13.9976 36.9946 50THE GEMINI OBSERVATORY

670 N. A'ohoku Place

Hilo, HI 96720 13.9976 36.9946 50Tel: 808-935-9802

Email Submission Address: gemini-jobs@gemini.edu

URL:

Attention: HR Dept/GSF

The Gemini Observatory operates two 8-meter telescopes, one located on Mauna Kea in Hawaii and the other on Cerro Pachon in Chile. The observatory is an international collaboration between the United States, United Kingdom, Canada, Australia, Chile, Argentina and Brazil. Both telescopes are now ramping up science operations. The scientific team is based in Hilo, Hawaii and in La Serena, Chile. The Gemini Science Fellows are members of the science team and they participate actively in the main activities of the Observatory:

direct support executing scientific observations at the Gemini telescopes;

scientific support of the commissioning of the telescope and its sub-systems, facility and instrumentation; and

active participation in the scientific life of the observatory through a strong personal research program and collaborative initiatives with the other members of the science staff.

Gemini is committed to the scientific productivity of its research staff. 40% of a Gemini Science Fellow's time will be available for astronomical research. The research should focus on areas in which Gemini will make a major impact.

Requires Ph.D. in astronomy, physics or a related discipline. Substantial experience with optical/infrared observations, data analysis and/or instrumentation is desirable. We preferentially seek astronomers with experience or knowledge of adaptive optics, thermal infrared observations or optical high-resolution spectroscopy. The duration of the position will be for three years, with possible extension for two more years.

For further information contact Jean-Rene Roy (Gemini North Associate Director) e-mail: jrroy@gemini.edu or Phil Puxley (Gemini South Associate Director) e-mail: ppuxley@gemini.edu

Send a resume, a statement of research and development activity interest, indicate the location for which you wish to be considered and the name of the person to whom you should send the materials by 14 January 2005 to tollpt@ntes.ion

<http://www.physics.yorku.ca/Jobs/academic.htm>

No. 12492

2x Research Fellows (Theoretical Astrophysics and Cosmology)

UNIVERSITY OF SUSSEX

University of Sussex

Falmer

Brighton, East Sussex BN1 9QJ

England

Email Inquiries: a.liddle@sussex.ac.uk

URL: www.astronomy.susx.ac.uk

Attention: Andrew Liddle, Professor of Astrophysics

The Astronomy Centre And The Centre For Theoretical Physics

2 Research Fellows (Theoretical Astrophysics and Cosmology) 061b £17,451 - £26,229 (Research & Analogous 1A)

Applications are invited for two postdoctoral positions, each starting in October 2002 and of two year's duration, with possible renewal for a third year by mutual agreement. The first post will be in theoretical astrophysics, in the area of extragalactic astrophysics or cosmology, and will be based in the Astronomy Centre at the University of Sussex. The second post will be in particle cosmology, joint between the Astronomy Centre and the Centre for Theoretical Physics at Sussex.

Applicants should send a curriculum vitae and statement of research plans to Professor Andrew Liddle, Astronomy Centre, University of Sussex, Brighton BN1 9QJ, United Kingdom, to arrive by the closing date given below. They should arrange for three referees to send letters of recommendation directly to the same address by the same deadline. Informal enquiries may be directed to Professor Andrew Liddle (a.liddle@sussex.ac.uk), and further information about the research groups can be found at the WWW sites below.

Closing date: 31st January 2002

<http://astronomy.susx.ac.uk/index.html> <http://www.pact.cpes.sussex.ac.uk/>

<http://www.susx.ac.uk/Units/staffing> An Equal Opportunity Employer.

No. 12493

Support Scientist for the European VLBI Network (Postdoctoral position)

JOINT INSTITUTE FOR VLBI IN EUROPE

Postbus 2

7990 AA DWINGELOO

The Netherlands

Tel: +31- 521-596500

FAX: +31-521-596539

Email Submission Address: schilizzi@jive.nl

Email Inquiries: langevelde@jive.nl

URL: www.jive.nl

Attention: R.T. Schilizzi, Prof.

THE JOINT INSTITUTE FOR VLBI IN EUROPE (JIVE) is seeking one candidate for a fixed-term appointment as SUPPORT SCIENTIST FOR THE EUROPEAN VLBI NETWORK (Postdoctoral position) to be located at JIVE, Dwingeloo, The Netherlands.

The Joint Institute for VLBI in Europe (JIVE) is operating an advanced 16-station MkIV-standard VLBI data processor (correlator) to support VLBI astronomical observations made with the European VLBI Network (EVN). Further information may be obtained from

No. 12494

Assistant Professor of Physics

PENN STATE BERKS-LEHIGH VALLEY COLLEGE

Tulpehocken Rd.

P.O. Box 7009

Reading, PA 19610-6009

Tel: 610-396-6210

FAX: 610-396-6026

Email Submission Address: dcm9@psu.edu

Email Inquiries: u3c@psu.edu

URL: <http://www.bklv.psu.edu/faculty/openpos>

Attention: Academic Affairs

The Berks-Lehigh Valley College of The Pennsylvania State University, located on two campuses near Reading and Allentown, Pennsylvania, invites applications for a tenure track assistant professor position in physics or astronomy to start August 2002. The Berks-Lehigh Valley College is a rapidly expanding undergraduate college emphasizing innovative teaching, faculty research and service. Demonstrated excellence in and commitment to teaching introductory physics courses and laboratories is required. An active physics, pedagogical physics, or astronomy research program involving undergraduates is expected. Details of this position and application procedures can be found at <http://www.bk.psu.edu/faculty/openpos.html>. The College offers a competitive salary and benefits package. Applications will be reviewed beginning January 2002, and will be considered until the position is filled. AAE/EOE.

No. 12495

Postdoctoral Research Fellow / Extragalactic Astronomy

FERMI NATIONAL ACCELERATOR LABORATORY

P.O. Box 500

M.S.127

Batavia, IL 60510

Tel: 630-840-8264

Email Submission Address: skent@fnal.gov

Email Inquiries: employ@fnal.gov

URL: www.fnal.gov

Attention: Stephen Kent, EAG Search Committee

The Sloan Digital Sky Survey, currently in its second year of operation, will produce an archive of CCD imaging of 1/4 of the sky and spectroscopy of 1 million galaxies and quasars. The data is being used for a wide range of research projects, from the solar system to large scale structure of the universe. Applications are invited for two postdoctoral research positions. The successful candidates will perform independent research on projects using SDSS data and related observational work. They will work with scientists and data analysts to assist in one or more areas of SDSS operations including operating and/or upgrading data processing pipelines, survey planning systems, and data archive systems, and assist in verifying data quality, particularly photometric calibrations. They will also participate in long range planning and preparation for future projects by the EAG.

The persons should have a Ph. D. in Astrophysics or related field, and have experience with collection and reduction of astronomical imaging and/or spectroscopic data. Experience with C/C++, Unix, databases, and/or TCL/Tk is helpful. The initial appointment will be for 2 years, renewable upon satisfactory performance for an additional year, with a starting date of 1 September 2002. Applications should include CV, publications, and a statement of research interests, as well as three (3) letters of recommendation. All information should be sent before 31 January 2001 to the EAG Search Committee, attention Stephen Kent, at the above address.

No. 12496**Carolina Postdoctoral Program for Faculty Diversity****UNIVERSITY OF NORTH CAROLINA****Office of the Vice Chancellor for Research and Graduate Studies****CB#4000 312 South Building****Chapel Hill, NC 27599-4000****Tel: 919-962-1319****Email Inquiries: bruce@physics.unc.edu****URL: <http://research.unc.edu/gsr/postdoc.html>***Attention: Carolina Postdoctoral Program for Faculty Diversity,*

The Department of Physics and Astronomy of the University of North Carolina invites applications for a postdoctoral fellowship in astronomy/astrophysics under the auspices of the Carolina Postdoctoral Program for Faculty Diversity. The purpose of the Program is to advance scholars from underrepresented groups in higher education. Minority applicants who will have completed their doctoral degree no later than 1 July 2002, and no earlier than July 1, 1998 are eligible to apply. Additional information and application materials can be found at <http://research.unc.edu/gsr/postdoc.html>. Applications from all areas of astronomy and astrophysics are encouraged. UNC is a partner in the 4.2-m SOAR telescope, with first light anticipated in 2003, and in the 10-m class Southern African Large Telescope (SALT), with first light anticipated in 2006. Moreover, an active instrumentation program is conducted within the department's Goodman Laboratory for Astronomical Instrumentation. Additional information about the Department of Physics and Astronomy can be found at <http://www.physics.unc.edu/>.

All application materials should be sent to the Carolina Postdoctoral Program for Faculty Diversity, Office of the Vice Chancellor for Research and Graduate Studies, at the above address, and must be postmarked by 1 February 2002.

No. 12497**Assistant Professor, Astrophysical Sciences****PRINCETON UNIVERSITY****Dept. of Astrophysical Sciences**

**Peyton Hall; Ivy Lane
Princeton, NJ 08544**

Attention: Professor S. Tremaine, Chair

**ASSISTANT PROFESSOR DEPARTMENT OF ASTROPHYSICAL SCIENCES PRINCETON
UNIVERSITY**

Princeton University anticipates appointing a tenure-track Assistant Professor in the Department of Astrophysical Sciences, to begin in September 2002. The primary selection criteria will be a demonstrated capability for original research in astronomy and astrophysics and exceptional promise of future activity and growth. The ability to teach and to supervise research at the undergraduate and graduate levels are also important criteria. The search will focus on researchers specializing in theoretical astrophysics, but outstanding candidates from all areas of astronomical research are encouraged to apply. Further information on departmental resources and research programs can be found at <http://www.astro.princeton.edu>, or by directly contacting department faculty.

Candidates should send curriculum vitae, bibliography, and a research statement of three pages or less to Professor S. Tremaine, Chair, at the above address. They should also arrange for at least three referees to send letters of recommendation to the same address. Consideration of applications will begin immediately; all material should arrive by 1 March 2002 at the latest. AAE/EOE.

No. 12498

Hobby-Eberly Telescope Facility Manager

MCDONALD OBSERVATORY

HC 75, Box 1337-MCD

Fort Davis, TX 79734-5020

Tel: 915-426-3263

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

Attention: Human Resources

Applications are invited for the position of Hobby-Eberly Telescope (HET) Facility Manager (Research Engineering / Scientist Associate IV). The HET is an innovative 9.2m telescope at the McDonald Observatory in the wooded Davis Mountains of rural West Texas.

The Facility Manager oversees the fourteen person HET operations staff, is responsible for managing the facility's engineering development, telescope operations and facility maintenance, and functions as an advocate for engineering and scientific excellence.

Required qualifications include a Master's degree in Engineering, Physics, Astronomy or a related field; three years experience in engineering technical management; three years personnel supervision experience; and strong interpersonal skills. Preferred qualifications include a Ph.D. in Engineering or a related field; five years experience in engineering technical management; five years experience with the design, engineering and operation of astronomical telescopes; and five years supervisory experience.

This position requires residence in the Observatory's 33 home residential community and will commence immediately upon selection of the successful candidate. Salary will be competitive and commensurate with experience. HET is operated by the McDonald Observatory on behalf of a five university international

consortium. The Facility Manager will be employed by the University of Texas at Austin, which offers an excellent benefits package.

Applicants should submit a resume, a cover letter relating their education and experience to the needs of this position, and the names of three individuals from whom letters of reference can be requested, to the address above.

Additional information may be found on the World Wide Web at:

<http://hyperion.as.utexas.edu/mcdonald/mcdonald.html>.

Email Inquiries: vdkruit@astro.rug.nl

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

Attention: P.C. van der Kruit, Prof. Dr.

Applications are invited for a Tenure-track position on the scientific staff.

Current research interests of the Kapteyn Astronomical Institute are structure, evolution, dynamics and formation of galaxies, large-scale structure, gravitational lensing and the physics of the interstellar medium.

Facilities available include the optical telescopes at La Palma and the ESO facilities at La Silla and Paranal, including the VLT and VLTI, the (sub-)mm JCMT at Mauna Kea, the Westerbork Synthesis Radiotelescope, the European VLBI Network, the ISO data archive, etc. Computing facilities for data analysis and theoretical research are supported on a local and national level.

Candidates should have several years of research experience after obtaining a Ph.D. in any of the fields covered at the Institute. They are expected to undertake a vigorous research program of their own. Good teaching capabilities, and the ability to supervise and initiate research by graduate students are required.

Applications, together with a curriculum vitae, a list of publications and a statement of intended future research should be sent before 1 March 2002 to Prof. Dr. P.C. van der Kruit, director Kapteyn Astronomical Institute, at the above address. Three letters of reference should be sent directly to the same address.

No. 12501

Summer Research Program 2002

**NETHERLANDS FOUNDATION FOR RESEARCH IN ASTRONOMY (ASTRON),
JOINT INSTITUTE FOR VLBI IN EUROPE (JIVE)**

Oude Hoogeveensedijk 4

P.O. Box 2

Dwingeloo, 7991 PD

The Netherlands

Tel: +31 (0)521 595223

FAX: +31 (0)521 597332

Email Inquiries: csonka@astron.nl

URL: www.astron.nl or www.jive.nl

Attention: N. Csonka, Secretary Westerbork Observatory

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 2002 Summer Research Program. The program 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. 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 at www.astron.nl and www.jive.nl.

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 2002. If this is not possible please indicate why.

Please send or fax to the address given above the completed application form, which can be obtained from http://www.astron.nl/wsrt/astron_form.ps, together with a statement of your scientific interests and the names and addresses of two persons that will provide letters of reference.

Applicants should arrange for these letters of reference to be sent directly to the same address. Completed applications/references should be received by 15 February 2002. If required, printed copies of the application form can be requested by sending email to csonka@astron.nl.

No. 12502

Tenure-track, instrumentation oriented staff position

KAPTEYN ASTRONOMICAL INSTITUTE, UNIVERSITY OF GRONINGEN

P.O. Box 800

Groningen, NL-9700 AV

Netherlands

Tel: +31503634073

FAX: +31503636100

Email Submission Address: vdkruit@astro.rug.nl

Email Inquiries: vdkruit@astro.rug.nl

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

Attention: P.C. van der Kruit, Prof. Dr.

Applications are invited for a Tenure-track, instrumentation oriented staff position.

Research interests of the Kapteyn Institute are structure, evolution, dynamics and formation of galaxies, large-scale structure, gravitational lensing and physics of the interstellar medium.

The Institute participates actively in the development of optical/infrared instrumentation, such as VISIR, MIDI, SINFONI (VLT and VLTI), OMEGACAM (wide-field camera for VST), the Planetary Nebula Spectrograph (WHT, La Palma) and MIRI (mid-infrared camera/spectrograph for NGST). This work is done in close collaboration with the technical laboratory of ASTRON (Dwingeloo) and other partner institutes.

Candidates should have several years of research experience after their Ph.D. In addition to specific research interests, they should have a clear affinity and experience with modern optical/infrared instrumentation and be willing to actively participate, e.g. as principal investigator, in future instrument plans. Although an interest in technical aspects is important, the emphasis is on the astronomy-technology interface rather than detailed engineering work. Education of students in modern astronomical instrumentation is also important.

Applications, with a curriculum vitae, and a list of publications should be sent before 1 March 2002 to Prof. Dr. P.C. van der Kruit, director Kapteyn Astronomical Institute, at the above address. Three letters of reference should be sent directly to the same address.

No. 12503

Postdoctoral Fellow in Optical/X-ray Astronomy
HARVARD COLLEGE OBSERVATORY
Center for Astrophysics
60 Garden St.
Cambridge, MA 02138
Tel: 617-495-7204
FAX: 617-495-7356
Email Submission Address: josh@cfa.harvard.edu
Email Inquiries: josh@cfa.harvard.edu
URL: <http://hea-www.harvard.edu/ChaMPlane>

Attention: Jonathan Grindlay, Professor

A postdoctoral fellowship is available immediately at the Harvard College Observatory to work with Prof. J. Grindlay on the optical and x-ray analysis of the Chandra Multiwavelength Plane (ChaMPlane) survey (hea-www.harvard.edu/ChaMPlane). This galactic plane survey, using serendipitous sources detected in a large sample of Chandra galactic plane pointings, is designed to measure or constrain the space density and populations of accretion-powered compact objects in the Galaxy. A significant sample of cataclysmic variables, quiescent low mass x-ray binaries (containing both neutron stars and black holes) and compact objects accreting from Be companions is expected. The survey will also provide the largest sample of stellar coronal sources. Optical identifications of ChaMPlane sources are being carried out with a Long Term Survey project through NOAO, using the MOSAIC imagers on the CTIO and KPNO 4m telescopes. The postdoctoral fellow is expected to plan and conduct these optical imaging observations as well as multi-object spectroscopic followups already initiated at the WIYN and Magellan telescopes (and planned for the MMT).

Applicants should have experience in CCD photometry (DAOPHOT) and reductions of large datasets; experience with analysis of Chandra data is also desirable. ChaMPlane is supported by NASA (Chandra) and the NSF; this position is for 2 years with a (probable) extension for a third year. Women and minority candidates are encouraged to apply. Applicants should send a vita and bibliography, statement of research experience and interests and arrange for at least 3 letters of reference. Applications will be reviewed starting 15 March 2002, until the position is filled.

No. 12504
Research Associate
THE UNIVERSITY OF ARIZONA
Steward Observatory CAAO
933 N. Cherry Ave.
Tucson, AZ 85721
Tel: 520-626-4323
FAX: 520-621-1532
Email Submission Address: lclose@as.arizona.edu
URL: www.as.arizona.edu

Attention: Laird Close, Assistant Professor

The University of Arizona Department of Steward Observatory invites applications for a postdoctoral Research Associate position in cutting-edge direct extra-solar planet detection and characterization with Asst. Professor

Laird Close and Dr. Phil Hinz. The successful applicant will participate fully in project development, research, observation, data reduction, analysis, writing journal articles, and presenting the work at other institutions and conferences. Expertise in high resolution infrared observation is highly desired, but not required. Experience in adaptive optics, infrared data reduction, and substellar astronomy is also preferred. Candidates must have a background in any sub field of astronomy, and by the start date the candidate must have a Ph.D. in Astronomy, Physics, or a related field. The successful applicant will be provided with a research budget and will have full access to an advanced workstation and the unique high resolution infrared observational facilities of the University of Arizona (such as nulling interferometry at the 6.5m MMT & Magellan telescopes). The appointment will be initially for two years, with a third-year extension based on performance. To apply, please submit a CV, list of publications, statement of research interests and accomplishments, and have three letters of reference sent directly to Asst. Professor Laird Close, at the above address. Review of materials will begin 1 February 2002 and continue until position is filled. The University of Arizona is an EEO/AA Employer-M/W/D/V.

No. 12505

Astrophysics-Coordinator of Project ASTRO and Dept of Physics Instructor

WASHINGTON STATE UNIVERSITY

Webster Hall Room 1245

PO Box 642814

Pullman, Washington 99164-2814

Tel: 509-335-4994

FAX: 509-335-7816

Email Inquiries: gworthy@wsu.edu

Attention: Guy Worthy, Assistant Professor

The Department of Physics at Washington State University invites applications for a full-time education specialist in the field of astrophysics. Duties are split between two job titles: Coordinator of Project ASTRO for the inland northwest, and Lecturer/Instructor within the Physics Department. Project ASTRO is an educational program that fosters partnerships between scientists and K-12 teachers. The position involves recruitment of individuals, creation of brochures and web pages, and the organization of workshops. Teaching duties will be restricted to undergraduate astronomy classes. The successful candidate will have a Ph.D. or M.S. degree, excellent education credentials, and leadership ability. Applications should include documentation of educational experience, a resume, and a letter of application. The candidate should arrange for three letters of reference to be sent to "Astronomy Search" at the above address. Inquires are encouraged to Guy Worthy, 509-335-4994, gworthy@wsu.edu. Review of applications will begin 15 February, 2002. This position is contingent upon the availability of funds.

WASHINGTON STATE UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EDUCATOR AND EMPLOYER. Members of ethnic minorities, women, Vietnam-era disabled veterans, persons of disability and/or persons age 40 and over are encouraged to apply.

No. 12506

IFT Postdoctoral Position in Theoretical Astrophysics

UNIVERSITY OF FLORIDA

Department of Physics

Gainesville, FL 32611-8440

Tel: 352-392-8443

FAX: 352-392-5339

URL: <http://www.phys.ufl.edu/~ift/>

Attention: Ms. Lori Devlin, Secretary, IFT

The Institute for Fundamental Theory (IFT) at the University of Florida announces a postdoctoral position which will become available starting in the Fall of 2002. The IFT is an interdisciplinary institute that encourages interactions between theoretical high energy physics, theoretical condensed matter physics, theoretical astrophysics, and mathematical physics; more information may be found at <http://www.phys.ufl.edu/~ift/> The successful applicant will bridge two or more of the above areas.

Applicants should submit a vita, including a publication list, a statement of research interests (including how your research would fit into the framework of the IFT), and three letters of recommendation to Ms. Lori Devlin, Secretary, at the above address. First preference will be given to applications received before 1 February 2002. AAE/EOE.

No. 12507

Postdoctoral research position in extragalactic astrophysics

POTSDAM UNIVERSITY

Am Neuen Palais 10

Potsdam, D-14469

Germany

Tel: +49-(0)331-9771402

FAX: +49-(0)331-9771107

Email Submission Address: lutz@astro.physik.uni-potsdam.de

Email Inquiries: lutz@astro.physik.uni-potsdam.de

URL: <http://www.astro.physik.uni-potsdam.de>

Attention: L. Wisotzki, Dr.

A research position in extragalactic astrophysics is offered at Potsdam University. The main task will be to participate in the DLR/BMBF-funded project.

No. 12508

ASTRO-WISE Wide field imaging scientific programmers / Post Doctoral Fellows

KAPTEYN INSTITUTE

P.O. Box 800

Groningen, NL- 9700 AV

The Netherlands

Tel: +31-50-3634011

FAX: +31-50-636100

Email Submission Address: valentyn@astro.rug.nl

Email Inquiries: valentyn@astro.rug.nl

URL: www.astro-wise.org

Attention: E.A. Valentijn, Dr

The ASTRO-WISE consortium (consisting of the Kapteyn Institute, Groningen; European Southern Observatory, Munich; Capodimonte Observatory, Naples; the Terapix data center, Paris; University Observatory, Munich) has several openings for post-graduate/post-doctoral scientific programmers positions.

The European Community funded ASTRO-WISE project (<http://www.astro-wise.org/>) aims to provide a European astronomical wide field imaging survey system, facilitating astronomical research, data reduction, and data mining based on the new generation of wide-field sky survey cameras, like Omegacam at ESO/VST and Megacam at CFHT. The programme co-ordinates and significantly enhances the efforts by national data centers throughout the EU and ESO and prepares for the enormous increase in data rates (20 Tbyte/year) from sky survey cameras, which record 256 -323 Mega pixels at once and typically detect of the order of a billion astronomical sources per year for the planned 10 years of operations.

The programme has ambitious goals in the areas of on-the-fly-reprocessing, parallel processing, data basing of very large data volumes, federating data volumes and distributed processing over the various national data centers involved. ASTRO-WISE plans to become one of the first operational near-GRID/near Virtual Observatory systems. In this context, own research in IT and astronomical wide field imaging will be encouraged. The main objective of the job is to help designing and implementing innovative techniques to achieve the ASTRO-WISE survey system.

Contracts are fixed-term, up to 4 years, and are funded by ASTRO-WISE. Knowledge and practice of C and UNIX/LINUX operating systems is necessary and knowledge of Python (or Perl) scripting, astronomical image processing and object oriented data basing are an advantage. A strong team spirit is essential, as the project is organized in several national and international teams. Successful applicants will join one of the ASTRO-WISE member groups, depending on the skills and preferences of the candidate.

Applications/CV should be sent to Dr Edwin A. Valentijn, ASTRO-WISE coordinator valentyn@astro.rug.nl
DEADLINE 1 February 2002.

No. 12509

Postdoctoral Fellowship in Galaxy Formation at UCSC

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Department of Astronomy and Astrophysics

1156 High Street

Santa Cruz, CA 95064

Tel: 831-459-3839

FAX: 831-459-5265

Email Submission Address: pmadau@ucolick.org

Email Inquiries: pmadau@ucolick.org, joel@ucolick.org, rachel@astro.lsa.umich.edu

Attention: Prof. Piero Madau, Professor of Astronomy and Astrophysics

The Departments of Astronomy and Astrophysics, and Physics, at the University of California, Santa Cruz, invite applications for a NASA-funded postdoctoral position to study galaxy formation. The successful applicant will work on assembling and interpreting data on high-redshift galaxies from the Chandra, HST, and SIRTf observatories, and on analysis of results from a large program of hydrodynamic simulations. A focus of this program is a detailed comparison of theory and observation, so we welcome applicants with both theoretical and observational backgrounds. This position is funded by a an HST theory grant (PI Joel Primack, co-Is Piero Madau and Rachel Somerville (University of Michigan)) and by a NASA LTSA grant (PI Madau, co-Is David Elbaz (Saclay), Sandra Faber (Lick Observatory), Mauro Giavalisco (STScI), and Piero Rosati (ESO)). Appointment duration is expected to be two years with possible renewal, and will be based in Santa

Cruz but will involve regular visits and a possible extended stay in Michigan to interact with co-I Somerville. The postdoc will also work closely with the DEEP project, a program aimed at studying the large scale structure, formation, and evolution of distant galaxies using a 120-night survey of 50,000 faint galaxies with the Keck Observatory. Funds for travel, computing, and other research expenses are included. Compensation level will be determined by the qualifications and experience of the successful applicant, with possible enhancements with additional funding from the California Space Institute.

The expected start date is Fall 2002, but an earlier or later date is negotiable. To apply, please send a curriculum vitae, bibliography, a short statement of research interests and accomplishments, and three letters of reference to be received at the above address by 31 January 2002. AAE/EOE.

No. 12510

HEAD, GB Software Development Group

NATIONAL RADIO ASTRONOMY OBSERVATORY

520 Edgemont Road

Charlottesville, VA 22903-2475

Email Submission Address: resumes@nrao.edu

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

Attention: Human Resources Office,

The National Radio Astronomy Observatory, has a challenging opportunity to join a dynamic team focused on software issues at its Green Bank WV facility. This is home to the 100-meter, fully steerable Green Bank Telescope.

In this position, you will lead the development of the Green Bank Telescope control systems. Specifically, you will handle issues involving the real-time monitoring and control systems, user interfaces, and the data-acquisitions systems. The current focus of the project is on completing the day-one telescope and instrument control systems, and supporting the development of future instrumentation. Longer term development will include participation in the NRAO-wide initiative to provide an integrated software environment for all aspects of observing with NRAO telescopes.

You must have a bachelor's degree or equivalent experience in computer science or a related field, and a good background in the development of medium-sized software systems. We also require strong management skills, including personnel management, project planning, written and oral communication skills and problem resolution (both technical and personnel related). Knowledge of the complete software development life-cycle, including software engineering processes and object-oriented analysis and design is also required. Experience with radio astronomical systems is preferred, but not essential. Experience working in a scientific environment with scientists and/or engineers is highly desirable.

You'll enjoy competitive compensation and the extraordinary resources of a unique facility. The NRAO is an EOE (M/F/D/V).

No. 12510

HEAD, GB Software Development Group

NATIONAL RADIO ASTRONOMY OBSERVATORY

520 Edgemont Road

Charlottesville, VA 22903-2475

Email Submission Address: resumes@nrao.edu

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

Attention: Human Resources Office,

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You'll enjoy competitive compensation and the extraordinary resources of a unique facility. The NRAO is an EOE (M/F/D/V).

No. 12511

SOFTWARE ENGINEERS (2)

NATIONAL RADIO ASTRONOMY OBSERVATORY

520 Edgemont Road

Charlottesville, VA 22903-2475

Email Submission Address: resumes@nrao.edu

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

Attention: Human Resources Office,

The National Radio Astronomy Observatory, has the following challenging opportunity to join a dynamic team focused on software issues at its Green Bank WV facility. This is home to the 100-meter, fully steerable Green Bank Telescope.

Currently, there are two vacancies for software engineers to work on the Green Bank Telescope control systems. These positions will focus on support of the current telescope and instrument control systems, and development of future instrumentation. This may range from the implementation of low-level hardware control to work on the higher-level observation control software, and the preliminary stages of data analysis and archiving. The GBT control system is implemented in C++ on distributed Unix and VxWorks platforms. To some extent, the precise level and duties of the positions will depend on the skills and experience of the successful candidates.

A bachelor's degree in computer science or related field, or equivalent experience is required. A demonstrable

fluency in C++ strongly preferred. Experience with one or more of the following would be highly advantageous: object-oriented analysis and design; databases; development of distributed systems; instrument control; real-time software development.

You'll enjoy competitive compensation and the extraordinary resources of a unique facility. The NRAO is an equal opportunity employer (M/F/D/V).

No. 12512

Graduate Student (PhD) and Postdoctoral Fellowships in Extragalactic Astronomy GRADUATE RESEARCH SCHOOL ON "GROUPS OF GALAXIES AS LABORATORIES FOR BARYONIC AND DARK MATTER", UNIVERSITIES OF BOCHUM AND BONN, GERMANY

Universitaetsstr. 150 / NA7

Astronomical Institute

BOCHUM, 44780

Germany

Tel: +49-234-322-3454

FAX: +49-234-321-4169

Email Submission Address: dettmar@astro.ruhr-uni-bochum.de

Attention: Prof. Ralf-Juergen Dettmar, Spokesman

A new Graduate Research School (Graduiertenkolleg) on "Groups of Galaxies as Laboratories for Baryonic and Dark Matter" will be launched on 1 April 2002 at the universities of Bochum and Bonn. Funding for up to 10 fellowships for PhD students and 2 Postdocs will be available. More information is found at <http://www.astro.ruhr-uni-bochum.de/astro/GRK>.

The PhD fellowships are for up to three years, including travel funds to enable the successful applicant to participate actively in international conferences and observing runs. Candidates holding a MSc or equivalent (e.g. Diplom in Germany) are eligible to apply. Two postdoctoral fellowships are foreseen. These fellowships of ~EUR 1500,- per month will be granted for one year with a possible extension of another year.

A letter of application accompanied by a curriculum vitae and copies of relevant academic certifications (Diploma, MSc., etc) should be sent to Prof. Dr. Ralf-Juergen Dettmar at the above address. Applicants should arrange for two letters of reference from a person familiar with their academic career. Applications are accepted immediately until all positions are filled.

No. 12513

Tenure Track Assistant Professor of Astrophysics SOUTH CAROLINA STATE UNIVERSITY

300 College St.

P.O. Box 7296

Orangeburg, SC 29117

Tel: 803-533-3773

FAX: 803-536-8569

Email Inquiries: dkw@physics.scsu.edu

URL: <http://physics.scsu.edu/astrojob/>

Attention: Donald K. Walter, Dr.

Tenure Track Assistant Professor in Astronomy/Astrophysics

South Carolina State University (SCSU) has an opening beginning in August 2002 for a Ph.D. in astronomy/astrophysics or a related field who is interested in teaching undergraduates and conducting astrophysical research. This tenure-track appointment is at the assistant professor level in the Department of Physical Sciences. Duties include teaching courses in the areas of physics, physical science and related courses, as well as conducting research involving undergraduate students and miscellaneous faculty duties such as advising students and serving on committees.

Research facilities include numerous SUN and PC/Linux workstations. SCSU is a member of the Robotically Controlled Telescope Consortium, which manages the KPNO 1.3-meter telescope. SCSU has access to Fairborn Observatory, including the 82-inch Automated Spectroscopic Telescope.

Applicants should send a vita, unofficial transcript (personal copy), a list of three professional references (to be contacted pending candidate's permission) and a completed South Carolina State Government Application for Employment form. An application form and additional information about the position can be found at: <http://physics.scsu.edu/astrojob/>

Application materials should be send to Dr. Donald Walter at the above address. Email questions only to: dkw@physics.scsu.edu. Email applications will not be accepted.

Review of applications will begin on 5 March 2002 and continue until the position is filled. AAE/EOE.

No. 12514

Graduate Teaching Assistantships

THE UNIVERSITY OF TOLEDO

Dept. of Physics and Astronomy

Mail Stop 113

Toledo, OH 43606

Tel: 419-530-2659

FAX: 419-530-5167

Email Submission Address:

Email Inquiries: ndm@astro.utoledo.edu

URL: www.physics.utoledo.edu

Attention: Nancy D. Morrison, Chair, Graduate Admissions Committee

Graduate teaching assistantships are expected to be available in Fall 2002 in the Department of Physics and Astronomy of The University of Toledo. Duties will consist of serving as a laboratory instructor in astronomy or physics for up to about 20 hours per week. Incumbents will be expected to become active in research pursuant to the MS or the PhD degree in physics. Research assistantships are usually available for students who have passed the PhD qualifying examination. Areas available include Galactic and extragalactic interstellar matter, planetary science, and observational and theoretical stellar astrophysics. Students are encouraged to obtain observing experience in high-resolution stellar spectroscopy with our on-campus 1-m telescope. A Beowulf computer cluster is under development and will provide advanced computing capabilities. Our eight astronomy faculty members include active FUSE and HST investigators and three holders of NASA LTSA grants. Application forms are available through the address above or by e-mail. On-line applications are

accepted through links at www.physics.utoledo.edu, where further information about our programs may also be found. AAE/EOE.

No. 12515

Postdoctoral Research Associate/Optical and Infrared Instrumentation Development

UNIVERSITY OF VIRGINIA

P.O. Box 3818

Charlottesville, VA 22903-0818

Tel: 434-924 4328

FAX: 434-924 3104

Email Submission Address: skrutskie@virginia.edu

Email Inquiries: skrutskie@virginia.edu

URL: <http://www.astro.virginia.edu/>

Attention: Michael Skrutskie, Professor

The University of Virginia invites applications for a postdoctoral research associate position in the area of optical/infrared instrumentation development. The Department is expanding its efforts in instrumentation and is joining the Steward Observatory/Large Binocular Telescope consortium providing access to a variety of large ground-based telescopes. The Department operates the local Fan Mountain Observatory which hosts a pair of meter-class research-grade telescopes. The successful candidate will participate in the design and fabrication of a near-infrared camera/spectrograph and in the general development of instrumentation and the instrumentation laboratories including some support of Fan Mountain Observatory. The candidate may be called upon occasionally to represent the Department at consortium scientific/technical meetings. The Department will encourage the successful candidate to pursue an independent research program and will provide some independent support for such work. The term of the associateship is three years. The preferred start date is September 2002 but is negotiable. Pay level is commensurate with experience and will be competitive with 'National Prize' postdocs.

Candidates should have a Ph.D. in astronomy or related field and experience in instrumentation development. The application should include a curriculum vitae, a publication list, a statement of research interests, and three independently-sent letters of reference. For full consideration applications should be complete by 15 February 2002.

Application material may be submitted by regular mail or via email to the addresses above. The University of Virginia encourages applications from women and members of underrepresented groups. AAE/EOE.

No. 12516

Staff Astronomer

AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS (AAVSO)

25 Birch Street

Cambridge, MA 02138

Tel: 617-354-0484

FAX: 617-354-0665

Email Submission Address: jmattei@aavso.org

URL: <http://www.aavso.org>

Attention: Dr. Janet A. Mattei, Director

The American Association of Variable Star Observers (AAVSO) seeks candidates for a staff astronomer position to assist in research on variable stars and in the management of scientific activities at AAVSO Headquarters in Cambridge, Massachusetts. Ongoing projects include support for space missions and ground-based variable star observing programs, analysis of variable star data (particularly on long-period and cataclysmic variables), and scientific collaborations with other astronomical organizations worldwide. Resources for research include AAVSO International Database containing over 10 million digitized variable star observations going back nearly a century and appropriate computer facilities. Initial appointment is for a term of 1-3 years. Full benefits package is provided. Minimum requirements are a Ph.D. in astronomy and experience analyzing astronomical data. Background on variable stars and computer science, including knowledge in IDL is considered a plus.

Applicants should send a curriculum vitae, brief statement of research interests, list of publications, and three letter of references to Dr. J. A. Mattei, Director, at the above address. Applications will be considered until 15 March 2002 or until the position is filled. AAVSO is a non-profit, scientific organization and an equal opportunity employer. See www.aavso.org for a description of the organization and its activities.

No. 12517**Postdoctoral position in galaxy formation/evolution****RUTGERS UNIVERSITY****Dept of Physics & Astronomy****136 Frelinghuysen Road****Piscataway, NJ 08854-8019****Tel: 732-445-5287****FAX: 732-445-4343****Email Submission Address: sellwood@physics.rutgers.edu****Email Inquiries: sellwood@physics.rutgers.edu***Attention: Jerry Sellwood, Professor*

Applications are solicited for an additional postdoc to work with Jerry Sellwood on problems of galaxy formation and galactic dynamics. Experience with numerical hydrodynamics, preferably in the galaxy formation context, is desirable and the appointee will have access to in-house Beowulf clusters for computations. The position, which is for fall 2002 for three years, depends on the availability of funds.

The astronomy group at Rutgers, which has grown rapidly in the past few years, now has 13 faculty, and will increase the number of postdocs from five to nine in this job round. Information on research activities and group facilities is available at <http://www.physics.rutgers.edu/ast/group-ast.html>.

Applicants should send a curriculum vitae, bibliography, statement of research interests and have three letters of recommendation sent to Professor Jerry Sellwood either to the above address, or by e-mail to sellwood@physics.rutgers.edu. Those who have applied already for the postdoctoral positions advertised by Professors Cote, Ferrarese or Merritt, and who wish to be considered for this position also, may send either a separate application or just e-mails to Sellwood and the other faculty concerned indicating that they wish their application to be shared. The deadline for applications is 1 February 2002.

No. 12518**Planetary Science**

UNIVERSITY OF MARYLAND
Stadium Drive Bldg #224
College Park, MD 20904
Tel: 301-405-5024
FAX: 301-405-3538
Email Submission Address: linda@astro.umd.edu
Email Inquiries: linda@astro.umd.edu
URL: <http://pdssbn.astro.umd.edu/>

Attention: Linda Diamond, Administrative Assistant

We are seeking a researcher with experience studying the small bodies of the solar system, preferably comets, and with good computing skills to join our group. At least 50% of the work will be with the Small Bodies Node of NASA's Planetary Data System while the remainder can be distributed among tasks with the SBN, the Deep Impact project, and other research projects in the small bodies research group supported by outside funding. Candidates are encouraged to develop their research interests, including seeking outside funding for a maximum of 50% effort.

The Small Bodies Node is the primary archive for numerous NASA missions, including NEAR, as well as relevant earth-based data. Candidates will be expected to carry out some research using SBN data as well as functional work such as being the SBN mission representative. With the recent arrival of the data from NEAR, work with this archive is currently top priority. The Deep Impact project (PI: M. F. A'Hearn) is a mission in NASA's Discovery Program, which will excavate a large impact crater on the nucleus of comet 9P/Tempel 1 to study the physical and compositional properties of the nucleus.

Appointment should commence as soon as possible but no later than August 2002. Interested candidates should submit a letter of research interests, a CV, and the names and addresses (both surface mail and email) of three references who have been asked to submit letters of recommendation. Applications received prior to 1 March will receive full consideration. (A full job announcement and description of work at SBN is at <http://pdssbn.astro.umd.edu>)

Scientific or technical questions about the position or about the small bodies research group at UM should be addressed to Michael F. A'Hearn, tel: 301 405 6076 or email: ma@astro.umd.edu. Applications and reference letters should be sent to Research Associate Position c/o Ms. Linda Diamond, at the above address. AAE/EOE.

No. 12519
Postdoctoral Research Associate (Stellar Abundance Studies)
UNIVERSITY OF WASHINGTON
Box 351580
University of Washington
Seattle, WA 98195
Tel: 206-543-8098
FAX: 206-685-0403
Email Submission Address: wall@astro.washington.edu
Email Inquiries: wall@astro.washington.edu

Attention: Dr. George Wallerstein, Professor Emeritus

Applications are invited for a postdoctoral Research Associate position at the University of Washington working with Prof. George Wallerstein. The proposed research will involve the determination of chemical and isotopic abundances in the atmospheres of cool stars, i.e. of type F and later. Candidates with experience in the reduction of echelle spectra and the analysis of chemical abundances using model stellar atmospheres will be preferred. Starting dates between 15 June and 15 September will be considered. Applications that are submitted by 1 April 2002 will be given first consideration, but the search will continue until a suitable candidate is selected. AAE/EOE.

No. 12520**Postdoc, Numerical simulations in Solar/Plasma physics****INSTITUTE OF THEORETICAL ASTROPHYSICS, UNIVERSITY OF OSLO****P.O. Box 1029 Blindern****Oslo, N-0315****Norway****Tel: +47-22856536****FAX: +47-22856505****Email Inquiries: mats.carlsson@astro.uio.no****URL: <http://www.astro.uio.no/~matsc/shp>***Attention: Mats Carlsson, Professor*

One or more positions will be available during 2002 for the project.

No. 12521**Hobby-Eberly Telescope Facility Manager****MCDONALD OBSERVATORY****HC 75, Box 1337-MCD****Fort Davis, TX 79734-5020****Tel: 915-426-3263****Email Submission Address: mta@astro.as.utexas.edu***Attention: Human Resources*

Applications are invited for the position of Hobby-Eberly Telescope (HET) Facility Manager (Research Engineering / Scientist Associate IV). The HET is an innovative 9.2m telescope at the McDonald Observatory in the wooded Davis Mountains of rural West Texas.

The Facility Manager oversees the fourteen person HET operations staff, is responsible for managing the facility's engineering development, telescope operations and facility maintenance, and functions as an advocate for engineering and scientific excellence.

Required qualifications include a Master's degree in Engineering, Physics, Astronomy or a related field; three years experience in engineering technical management; three years personnel supervision experience; and strong interpersonal skills. Preferred qualifications include a Ph.D. in Engineering or a related field; five years experience in engineering technical management; five years experience with the design, engineering and operation of astronomical telescopes; and five years supervisory experience.

This position requires residence in the Observatory's 33 home residential community and will commence

immediately upon selection of the successful candidate. Salary will be competitive and commensurate with experience. HET is operated by the McDonald Observatory on behalf of a five university international consortium. The Facility Manager will be employed by the University of Texas at Austin, which offers an excellent benefits package.

Applicants should submit a resume, a cover letter relating their education and experience to the needs of this position, and the names of three individuals from whom letters of reference can be requested, to the address above.

Additional information may be found on the World Wide Web at:

<http://hyperion.as.utexas.edu/mcdonald/mcdonald.html>.

No. 12522

Senior Software Engineer

THE NATIONAL OPTICAL ASTRONOMY OBSERVATORY

P.O. Box 26732

950 North Cherry Avenue

Tucson, AZ 85726-6732

Attention: Human Resources

The National Optical Astronomy Observatory (NOAO) has an immediate opening for a software engineer in the Science Data Systems Group within the Data Products Program. NOAO is expanding its mission in the area of data management to include pipeline processing and archiving of data sets, and the generation of derived data products of major scientific interest. The aim of the Data Products Program is to enable new kinds of scientific endeavor by establishing an archive of O/IR data, and through its participation in the National Virtual Observatory. The Senior Software Engineer must have a strong background in data analysis, algorithm design, and scientific software to develop astronomical data processing, data mining, and analysis applications in support of the next generation of large telescopes and detectors.

The Sr. Software Engineer designs, develops, and maintains software programs applied to technical, scientific or engineering problems for a subsystem within the NOAO domain. This includes design preparation and presentation, code development, documentation preparation, web development, unit testing, and software debugging. The design activity is based on the scope of the task, which may require the senior software engineer to do all design work, participate on a design team, or lead a design team. Projects often involve collaboration with NOAO scientific staff to determine the requirements for the software, as well as collaborations with other members of the Science Data Systems Group on larger programming projects.

A Bachelor's Degree in Computer Science, Physics, Math, or technically related field is required; an advanced degree is preferred. Requires fluent knowledge of a high level language such as Fortran, C, C++, or Java and familiarity with astronomical data standards. The ability to communicate effectively and to establish and maintain effective professional working relationships is essential. Proficiency in a computer operating system such as NT or Unix, and a solid knowledge of software development methodologies is necessary. At least 7 years experience developing medium or large projects in a formal software development organization required. Substitution of equivalent education or experience for stated qualifications may be considered. AAE/EOE.

No. 12523

Principal Systems Engineer

THE NATIONAL OPTICAL ASTRONOMY OBSERVATORY

P.O. Box 26732

**950 North Cherry Avenue
Tucson, AZ 85726-6732**

Attention: Human Resources

The National Optical Astronomy Observatory is expanding its mission in the area of data management to include pipeline processing and archiving of data sets, and the generation of derived data products of major scientific interest. The aim of the Data Products Program is to enable new kinds of scientific endeavors, establishing archive of O/IR data. The successful candidate in participation in the National Virtual Observatory will play an essential role in planning and developing advanced data management and archiving systems to support the next generation of large, high data-rate telescopes. The Science Data Systems Group with NOAO in Tucson Arizona has an immediate opening for a software systems engineer with the Data Products Program.

The Systems Engineer will develop requirements (interface, data, processing, security, test), system architectures, and algorithms, and will support the design, implementation, integration, test and verification of the Science Data Archive and pipeline data processing systems. Participate in establishing operations concepts, perform requisite studies, analyses and trades. The successful candidate will be expected to have or gain familiarity with existing systems used for data capture, data processing, and mass storage of astronomical data.

Have relevant experience in definition, development, test, and operation of data archiving systems. Applicant must demonstrate the ability to perform objective trade studies on complex issues and balance system performance cost, schedule, risk, and user satisfaction. Extensive experience in the planning, acquisition and deployment of complex networking systems, as well as in WANs, LANs, IP, public and private data networks, security, and highly reliable & redundant networking. Familiarity with standard systems engineering practices and tools is highly desirable. An advanced degree in Engineering, or a related scientific or technical field desirable. Relevant education or experience for stated qualifications may be considered. Ability to communicate effectively, and have excellent leadership skills. Fluent knowledge of a high level language such as C, C++, or Java, and required analysis of program tools and techniques.

No. 12524

NOAO Postdoctoral Research Associate Position

THE NATIONAL OPTICAL ASTRONOMY OBSERVATORY

P.O. Box 26732

950 North Cherry Avenue

Tucson, AZ 85726-6732

Email Inquiries: hrnoao.noao.edu

Attention: Sandra Abbey

Applications are invited for a postdoctoral research associate to work at the National Optical Astronomy Observatory, in Tucson Arizona, with Dr. Buell T. Jannuzi on studies of the properties of the inter-galactic medium at intermediate redshift. The selected post-doc would participate in the analysis of HST/STIS Echelle observations of moderate redshift quasars that have already been obtained. The goal of the program is to characterize the physical properties of Lyman-alpha and metal-line quasar absorption line systems at moderate redshift (0.5). The appointment will be for a minimum of two years with the possibility of a third year contingent upon funding availability and performance. Qualified candidates must have a Ph.D. in Astronomy or related field by the date of appointment. Interest and expertise in observational or theoretical investigations of the inter-galactic medium and the formation and evolution of large-scale structure is highly desirable. Start date is negotiable and could be as early as spring of 2002.

NOAO offers an excellent benefit package, relocation assistance, competitive salaries, and a stimulating work environment. Salary will depend on experience level of the applicant. Applicants should send a cover letter with curriculum vitae, including publication record, description of research interests, and arrange for letters from three references to the address below.

Completed applications received by 23 January 2002 are assured full consideration. Enquiries about the job can be directed to Dr. Buell T. Jannuzi (jannuzi@noao.edu). Women and minority candidates are urged to apply. We are an Affirmative Action and Equal Opportunity Employer. Hiring preference is given to qualified Native Americans living on or near the Tohono O'Odham reservation.

No. 12525
University Lectureships in Astrophysics
UNIVERSITY OF DURHAM
Department of Physics
Rochester Building
South Road
Durham DH1 3LE
England

Attention: Ms. Penny Carse (please reference Astrophysics Lectureship)

The Physics Department of Durham University is seeking to fill one, and possibly two, University Lectureships in Astronomy and Astrophysics from October 2002. For the first lectureship, applications are invited from suitably qualified individuals with research interests in computational astrophysics, including cosmology, star formation, planet formation and high energy astrophysics. A second lectureship may also become available and applications are invited for this post from individuals with research interests in observational extragalactic astronomy including galaxy dynamics, stellar populations and galaxy evolution from high redshift to the present. An outline of our current research programmes in Astronomy may be found at http://www.dur.ac.uk/Physics/research/research_astro.html or by requesting further particulars.

Durham hosts one of the largest groups in Europe dedicated to theoretical and observational astronomy, with emphasis on extragalactic research and astronomical instrumentation. There are currently 16 members of staff with research interests in Astronomy, 6 Royal Society Fellows, about 25 postdoctoral researchers and 25 research students. The computational astrophysics post is associated with the newly created Institute for Computational Cosmology which is part of the Ogden Centre for Fundamental Physics. The Institute recently purchased a large dedicated supercomputer, one of the largest of its kind in the UK and, as part of the Virgo consortium for cosmological simulations, has access also to supercomputers in Edinburgh and Munich. Durham astronomers regularly obtain time on UK telescopes (WHT, AAT, UKIRT, JCMT, etc), and other international telescopes and space observatories (HST, Chandra, XMM, etc) and currently have access to the one of the Magellan 6.5m telescopes in Chile. The instrumentation group has built forefront astronomical instrumentation for a wide range of world leading facilities.

Salary will be within the Lecturer Grade A/B Salary Scale. Applications (including a CV, bibliography and a statement of research interests) that are sent to Ms Penny Carse, at the above address before 15 March 2002 will receive the fullest attention.

Applicants should also arrange for three letters of recommendation to arrive at the same address by the closing date. Further particulars may be obtained from Ms. Carse (tel +44 191 374 2183, fax +44 191 374 2111, or e-mail P.A.Carse@durham.ac.uk). Informal enquiries may be made for the computational post to Professor

Frenk (+44 191 3742141; C.S.Frenk@durham.ac.uk) and for the observational post to Professor Davies (+44 191 3742163; Roger.Davies@Durham.ac.uk).

No. 12526

Postdoctoral Research Scientist

THE UNIVERSITIES SPACE RESEARCH ASSOCIATION

7501 Forbes Blvd., Suite 206

Seabrook, MD 20706-2253

Attention: David Holdridge (please reference code AGN)

The Universities Space Research Association (USRA) is seeking a Postdoctoral Research Scientist to undertake research in X-ray astronomy, specifically on X-ray surveys and active galactic nuclei. This work will be performed in collaboration with Dr Kirpal Nandra in the X-Ray Branch of the Laboratory for High Energy Astrophysics at NASA's Goddard Space Flight Center in Greenbelt, Maryland. The position will involve analysis and interpretation of data from several approved programs with Chandra and XMM-Newton, and ground-based facilities. The successful candidate will also be expected to collaborate on proposals for additional observations.

The position requires a Ph.D. in Physics, Astronomy, or related discipline. Experience with X-ray data analysis, X-ray surveys, active galaxy research or optical follow-up of X-ray sources is desirable. Salary will be competitive and commensurate with experience and qualifications.

Informal enquiries can be directed to nandra@milkyway.gsfc.nasa.gov

USRA is a non-profit university consortium, chartered to broaden opportunities for collaboration between university and government space research communities.

Applications received by 15 Feb 2002 will receive full consideration. Apply on-line at:

<http://www.gvsp.usra.edu/cpss/resume/index.html> and/or mail letter describing research interests, complete CV and publication list, and contacts (include e-mail addresses) for at least three references to David Holdridge at the above address. AAE/EOE.

No. 12527

Postdoctoral Positions in Extragalactic Astronomy

SPACE TELESCOPE SCIENCE INSTITUTE

3700 San Martin Drive

Baltimore, MD 21218

Email Submission Address: resume@stsci.edu

Attention: Human Resources

Applications are invited for two or more postdoctoral positions associated with several recently approved HST programs in the area of observational cosmology and extragalactic astronomy. Applicants are expected to have a strong interest in analysis and interpretation of multiwavelength surveys, such as the Great Observatories Origins Deep Survey (<http://www.stsci.edu/science/goods/>) and the WFPC2 Archival Parallel program. GOODS is a program that unites deep observations from space- and ground-based observatories to study galaxy formation and evolution, high-redshift supernovae and AGN. It incorporates an HST Treasury Program of deep optical imaging with ACS, a SIRTf Legacy Program of deep imaging at 3.6 to 24 microns, and extensive

ground-based supporting observations at many wavelengths. The WFPC2 Archival Parallel Survey is a collection of single and multi-band WFPC2 images distributed all over the sky; these images can be used for a variety of projects, which include gravitational lensing, finding rare high-redshift galaxies, identification of optical counterparts to X-ray sources, and the structure and star formation of the Milky Way and nearby galaxies.

Successful candidates will be chosen on the strength of their accomplishments in broad areas of observational astronomy or theoretical astrophysics, on the promise of their proposed research, and on its connection to the proposed programs. They will join a team of astronomers at STScI actively working on such surveys, including Mauro Giavalisco, Mark Dickinson, Harry Ferguson, Adam Riess, Stefano Casertano, Andy Fruchter, and others, and will be expected to participate actively in the process of carrying out and analyzing these surveys. Applicants must have a PhD or equivalent degree by the date of appointment. There are no restrictions on citizenship. The appointments may start in the summer or fall of 2002, initially for one year, with possible extension for up to two more years. The number of positions and their duration are subject to the availability of funding and on performance.

Applicants should send a cover letter specifying the position they are applying for and the area of primary interest to the address below, and attach a curriculum vitae, a publication list, a description of research interests, and a proposal for relevant research. They should also arrange for three letters of recommendation to be sent directly to the same address. Completed applications received by 28 February 2002 are assured full consideration.

STScI, located on Johns Hopkins University Campus in Baltimore, Maryland, offers an excellent benefit package, competitive salaries, and a stimulating work environment. The minimum salary is \$41,900; however, STScI's pay is commensurate to the year of Ph.D. Women and members of minority groups are strongly encouraged to apply.

For additional information, please contact Mauro Giavalisco at 410-338-5079 or mauro@stsci.edu.
EOE/AA/M/F/D/V.

No. 12528

Postdoctoral Fellow

SPACE TELESCOPE SCIENCE INSTITUTE

3700 San Martin Drive

Baltimore, MD 21218

Email Submission Address: resume@stsci.edu

Attention: Human Resources

Applications are invited for a post-doctoral research position at the Space Telescope Science Institute to work in collaboration with Dr. Gerard Kriss (gak@stsci.edu). The successful applicant will participate in the analysis, interpretation and modeling of HST/STIS, FUSE, X-ray, and ground-based spectra of AGN. Existing data include an extensive FUSE survey of the 900-1200 Å spectra of the brightest ~50 AGN together with ground-based and HST spectra of the same sample. This comprehensive data set will be used to examine the broad-band spectral energy distribution of low-redshift AGN, ascertain physical conditions in their broad line regions, and study associated UV and X-ray absorbers. Future approved observations include coordinated Chandra, FUSE, and HST observations of the warm absorbing gas in the Seyfert 1 galaxies NGC 7469 and Mrk 279. The successful applicant may have some time available for independent research.

Candidates must hold a Ph.D. degree in astronomy or a related field, and have experience with data reduction and analysis of AGN spectra, preferably in IRAF, or experience in photoionization modeling or modeling of

accretion-disk spectra. The initial appointment is for one year with renewal for up to three years dependent upon performance and continued funding. A starting date as soon as is mutually agreeable is preferred, but not later than September of 2002.

STScI, located on Johns Hopkins University Campus in Baltimore, Maryland, offers an excellent benefit package, relocation assistance, competitive salaries, and a stimulating work environment. The minimum salary is \$41,900; however, STScI's pay is commensurate to the year of Ph.D.

Applicants should send a cover letter to Human Resources mentioning the job number, a curriculum vitae, a bibliography, and a brief statement of research interests. They should also arrange for three letters of recommendation to be sent directly to the same address. Complete applications received by 31 January 2002 will receive full consideration. Women and members of minority groups are strongly encouraged to apply. EOE/AA/M/F/D/V

No. 12529

High Energy Astronomy/Astrophysics

UNIVERSITY OF UTAH

Department of Physics

115 South 1400 East #201

Salt Lake City, UT 84112-0830

Attention: Human Resources

The Physics Department at the University of Utah is seeking qualified candidates for a tenure track position in high-energy Astronomy/Astrophysics. Preference will be given for hiring at the Assistant Professor level, but more senior level appointments can also be considered. We seek candidates with experience in experimental and observational aspects of X-ray, gamma-ray, and high-energy gamma-ray astrophysics and astronomy. The successful candidate will have a strong commitment to both teaching and research, and will develop their own research program as well as collaborate with existing astrophysics research. The University of Utah is a major participant in several high-energy astrophysics projects, including the VERITAS Observatory, the Whipple 10m gamma ray observatory, and the High-Resolution Fly's Eye Observatory. This appointment requires teaching undergraduate/graduate courses in Astronomy/Physics.

We expect the successful candidate will begin their appointment in Fall 2002. Candidates should submit their curriculum vitae, statement of research interests, and three letters of recommendation by 31 March 2002 to the above address.

The search committee reserves the right to consider applications received after this closing date.

The University of Utah is an equal opportunity/affirmative action employer. It encourages applications from women and minorities and provides reasonable accommodations to the known disabilities of applicants and employees.

No. 12530

Postdoctoral or Research Associate

MAX-PLANCK-INSTITUTE FOR EXTRATERRESTRIAL PHYSICS AND

UNIVERSITY OBSERVATORY MUNICH

Giessenbachstrasse

85748 Garching/Munich

Germany

Tel: +49-89-2180-5999

FAX: +49-89-2180-5843

Email Inquiries: bender@usm.uni-muenchen.de

URL: <http://www.usm.uni-muenchen.de/people/hopp/Galaxies.html>

Attention: Mrs. Rieperdinger

The joint extragalactic astrophysics group of the Max-Planck-Institute for Extraterrestrial Physics and the University Observatory Munich invites applications for several post-doctoral or research associate positions. The candidates should have research interests and experience in wide-field optical and infrared surveys, stellar populations of galaxies, galactic dynamics or gravitational lensing. We also welcome applicants with a background in optical and infrared instrumentation.

The positions are initially for two years, and can be extended up to five years. For more senior applicants and in exceptional cases, tenure may be considered after that period. The starting date would be spring 2002 or later.

The joint extragalactic group currently consists of R.Bender, N.Drory, L.Geggio, U.Hopp, C.Maraston, A.Riffeser, R.Saglia, S.Seitz, D.Thomas and about 10 PhD students. Guaranteed access exists to the Hobby-Eberly-Telescope, the Large Binocular Telescope, the VLT Survey Telescope and other telescopes. Furthermore, access through the regular application process is possible for all ESO and Calar Alto telescopes. Generous funding for travel and computers is available.

Interested candidates should submit CV, list of publications, statement of research interests and accomplishments, and have three letters of reference sent until Feb 15 to Mrs. Rieperdinger at the above address.

MPE and USM encourage applications from women, minorities and disabled persons.

No. 12531

University Lecturer in Theoretical or Observational Astronomy

UNIVERSITY OF CAMBRIDGE

Institute of Astronomy

Madingly Road

Cambridge, CB3 0HA

United Kingdom

Attention: Miss D. Bayston

Applications are invited for a tenured-rank post in astronomy or astrophysics at the Institute of Astronomy. The vacancy is available from 1 April 2002 or thereabouts at the level of University Lecturer. Candidates are sought with experience in any area of theory or observation. The Institute's current activities include work in cosmology and large-scale structure of the Universe, the formation, structure and evolution of galaxies, quasars, high-energy astrophysics, stellar dynamics, N-body simulations, star formation and evolution, accretion discs, helio and asteroseismology, gravitational lensing, numerical hydrodynamics, measurement of stellar radial velocities and instrumentation for large optical and IR telescopes. The UK is a partner in the Gemini observatory and a member of ESO. The successful applicant would be expected to contribute to these or other research programmes and interact with other members of the Institute as well as astronomers in other related departments in Cambridge. The appointee would also be expected to contribute to the undergraduate and postgraduate teaching needs of the Institute.

The salary scale is #22,522 to #34,734 UK pounds depending upon current salary and experience. The appointment will be for three years in the first instance, and is renewable to retiring age (67).

Applications including a cv, publication list, a research plan and the names of three referees should be sent to Miss D. Bayston at the above address as soon as possible, and no later than 15 February 2002. Enquiries concerning this post may be made to Professor Douglas Gough at the Institute (email: douglas@ast.cam.ac.uk, tel: +44 (0)1223 337518).

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

The University is committed to equality of opportunity.

No. 12532

Postdoctoral Position in Galactic/Instellar Medium Astrophysics

BOSTON UNIVERSITY

Institute for Astrophysical Research

725 Commonwealth Avenue

Boston, MA 02215

Tel: 617-353-6499

FAX: 617-353-5704

Email Inquiries: jackson@bu.edu

Attention: Professor James M. Jackson

Applications are invited for a post-doctoral position in support of the Boston University-Five College Radio Astronomy Observatory Milky Way Galactic Ring Survey (GRS). The GRS is using the FCRAO millimeter-wave telescope to survey a large section of the northern Galactic plane in the 13CO 1-0 molecular line. The GRS database will be used to investigate: (1) the structure of the Milky Way, (2) the structure of molecular clouds, and (3) embedded star forming regions. We are currently investigating a technique employing atomic hydrogen self-absorption to resolve the near/far kinematic distance ambiguity. The applicant must have a PhD in physics, astronomy, or a closely related field. We are seeking applicants with expertise in one of the following three areas: molecular astrophysics, Galactic structure, interstellar medium physics, star formation, or the manipulation and comparison of large databases. Duties include independent research, oversight of the observation team, and oversight of the data reduction and public release.

The initial appointment will be for two years, with the possibility of renewal for up to three additional years. Long-term funding has been secured. Applicants should send their CV, a statement of research interests, and the names of at least three references, to Prof. James Jackson at the above address. For full consideration, applications should be received by 15 December 2001. The start date is flexible, and can begin as early as January 2002.

No. 12533

Assistant Professor

THE UNIVERSITY OF TEXAS AT AUSTIN

Department of Astronomy

RLM Building 15.218

Dean Keaton (26th) and Speedway

Tel: 512-471-3000

FAX: 512-471-6016

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

URL: <http://www.as.utexas.edu>

Attention: Professor Paul R. Shapiro

The Department of Astronomy at the University of Texas invites applications for a tenure-track faculty position to begin in September 2002. We especially seek candidates in the field of cosmology. A simultaneous search is currently being conducted by the University of Texas Department of Physics for a theoretical cosmologist with expertise in the physics of the early universe. These two parallel hires are intended to be the first of several positions in a new joint initiative by the Departments of Astronomy and Physics in the field of cosmology. These new faculty will join with other members of the two departments in the initiative, which will serve as a center of interaction and collaboration to enhance the existing strengths of both departments and McDonald Observatory in this and related fields.

Consideration of applications will begin 16 January 2002, and will continue until the position is filled. Applicants should have a Ph.D. in Astronomy or Physics, and show evidence of outstanding accomplishment in research, ability to teach effectively, and potential to develop significant research programs involving students and postdocs. Applications should include a curriculum vitae, a statement of research interests and accomplishments, a list of publications, and three or more reference letters mailed directly to the Chair of the Search Committee, Prof. Paul R. Shapiro. Applications and questions should be directed to the above address. Women and minorities are encouraged to apply. AA/EOE.