



## June 2005

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## Editorial

### Job Register Fee Change

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

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

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

Kevin B. Marvel  
Deputy Executive Officer

## Publication Policy for the AAS Job Register

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### Deadlines for submission

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

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

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

### **Examples**

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

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

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

### **Rate Sheet**

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

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

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

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

We accept payment by:

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

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

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

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

The AAS Federal Identification number is 21-0735173.

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

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

### **Announcement Requirements**

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

Jobs will not be published without the following:

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

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

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

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

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

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

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

## Submission

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

## Frequency and Circulation

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

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

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

## Member Notification

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

## Jobs from Previous Months

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

**No. 21634**

**Long Term Researcher**

**PERIMETER INSTITUTE FOR THEORETICAL PHYSICS**

**31 Caroline Street N.**

**Waterloo, Ontario N2L 2Y5**

**Canada**

**Tel: (519) 569-7600 x8531**

**FAX: (519) 569-7611**

**URL1: <http://www.perimeterinstitute.ca>**

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

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

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

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### COSMOLOGY AND PARTICLE PHYSICS POSITIONS AT PERIMETER INSTITUTE

Perimeter Institute for Theoretical Physics (PI) is launching an initiative to add groups in theoretical cosmology and elementary particle theory by hiring a number of long-term researchers (equivalent to faculty) in each of these fields. These groups will add to our existing strengths in string theory, quantum gravity, quantum information theory and foundations of quantum mechanics. We are seeking both established scientists who are international leaders of their fields and young scientists who show exceptional promise of becoming leaders.

The history, mandate and structure of PI are described on our web page at [www.perimeterinstitute.ca](http://www.perimeterinstitute.ca) presently; PI has 9 long-term researchers and 20 postdocs, plus 4 associates in shared positions with nearby universities and 6 long-term visitors. There are presently 12 graduate students, who are supervised by PI researchers through graduate programs at nearby universities, including University of Waterloo, University of Guelph, University of Western Ontario and McMaster University.

PI's long-term positions may also involve, subject to the agreement of all parties, a cross-appointment to a tenured or tenure track position at a neighboring university. All qualified candidates, of all nationalities, are encouraged to apply. Cosmologists may also be interested to apply to a joint PI/UW cosmology faculty position with the University of Waterloo: <http://www.sci.uwaterloo.ca/physics/positions/astro-pi.html>

Interested candidates should apply at: <http://perimeterinstitute.ca/positions/longterm.php> providing their C.V., publications list and research proposal. They should also arrange to have at least 4 letters of recommendation sent, according to the instructions on the online application. Although online applications are strongly preferred, applications, recommendations and inquiries may also be sent by email to [ltr@perimeterinstitute.ca](mailto:ltr@perimeterinstitute.ca) or by regular postal service to the address provided below. The deadline for applications is January 1, 2005, but applications received after that date will be considered until all positions are filled.

Perimeter has in addition ongoing searches in string theory, quantum information theory, quantum foundations and quantum gravity. In addition to these and other ongoing searches, PI is always pleased to consider inquiries from exceptional scientists in any area of theoretical physics for both long term and visiting positions. We encourage applications from all nationalities.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Address for mail applications: PASCOS Search Committee, Perimeter Institute for Theoretical Physics, 31 Caroline St. N., Waterloo, Ontario, CANADA N2L 2Y5.

**No. 21708****Astronomical Software Scientist****PRINCETON UNIVERSITY****Dept. of Astrophysical Sciences****Ivy Lane, Peyton Hall****Princeton, NJ 08544****USA****Tel:****FAX: 609-258-1020****URL1: <http://www.astro.princeton.edu>****(Department homepage)****URL2: <http://www.sdss.org>****(SDSS)****Email Inquiries: [gk@astro.princeton.edu](mailto:gk@astro.princeton.edu)*****Attention: Jill Knapp, Professor***

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The Department of Astrophysical Sciences, Princeton University, expects to have one or more positions in the area of software development and support for the acquisition, reduction, analysis, and testing of photometric and spectroscopic data obtained by the Sloan Digital Sky Survey, a multi-institution project to carry out an imaging and redshift survey, and other possible current and future large astronomical instrumentation projects. SDSS measures the sky at five bands, u,g,r,i, and z, using a large format CCD array, and spectra are obtained by a pair of multi-fiber spectrographs. The data reduction is done by a series of automated pipelines which calibrate and correct the data, find and measure objects, and produce digital catalogues, images and spectra for science analysis. We expect to carry out development, testing and support work in the following areas: running the pipelines; efficient algorithms for object measurement; quality analysis; co-addition of multiple imaging data; comparison and subtraction of images from multiple passes across the sky; automated searches for variable objects; algorithms to find rapidly varying or fast moving objects; global photometric calibration; spectrophotometry; and determination of stellar parameters (temperature, metallicity, spectral type, gravity, and radial velocity). Much of this work will be in support of SDSS-II, whose science goals include the studies of large scale cosmological structure, the kinematic and chemical structure and merger history of the Milky Way galaxy, and the characterization of supernova light curves in the range  $z = 0.05 - 0.35$ .

We seek persons with knowledge of optical astronomy at faint levels, CCD data, handling of large data sets, efficient automated data reduction, image analysis, and stellar spectroscopic

analysis. The work includes algorithm development; evaluating the scientific performance of pipeline code; writing robust, efficient code (primarily on Unix platforms in C); and running and maintaining pipeline code. Experience in TCL, C++ and software engineering practices and/or in instrumentation and optical telescope hardware and software is desirable. The appointment (s) will be made to the scientific or technical staff at a level and salary commensurate with experience, for an initial period of one year which can be renewed for one or more years depending on satisfactory performance and availability of funding. The candidate should hold a Ph.D. degree in (preferably) astrophysics, physics, mathematics or computer science.

Please send Vita, list of publications, detailed description of relevant experience, and arrange for three letters of recommendation to be sent to the above address. We will begin to evaluate applications on June 1, 2005 and will accept them thereafter until suitable candidates are found. These positions are offered subject to the availability of funding. Further information about the SDSS is available via <http://www.sdss.org> or by email from [gk@astro.princeton.edu](mailto:gk@astro.princeton.edu). For information about applying to Princeton, please link to: <http://web.princeton.edu/sites/dof/ApplicantsInfo.htm>. EEO/AE

**No. 21720****Professorship in Astronomy****DUBLIN INSTITUTE FOR ADVANCED STUDIES****10 Burlington Road****Ireland****Tel:****URL1: <http://www.dias.ie>****(Institute's webpage)****Email Submission Address: [registraroffice@admin.dias.ie](mailto:registraroffice@admin.dias.ie)****Email Inquiries: [ejam@dunsink.dias.ie](mailto:ejam@dunsink.dias.ie)*****Attention: Registrar***

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The School of Cosmic Physics of the Dublin Institute for Advanced Studies invites applications for the post of Professor in Astronomy. Applicants should have a strong record of original research complementing and enhancing our existing strengths in active galactic nuclei, advanced evolution of massive stars, computational astrophysics, data mining, evolution of extragalactic systems, high-energy astrophysics and star formation. Candidates should have an observational background but more theoretical interests that support the observational efforts may be considered as well.

Further details about this post can be found at [www.dias.ie](http://www.dias.ie).

Applications, including CV, Publication List, a brief Research Plan and the names of 3 referees should be sent by the 30th of June 2005 to [registraroffice@admin.dias.ie](mailto:registraroffice@admin.dias.ie) (quoting the reference number SPC0501 in the subject line) or by post to The Registrar's Office, Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland (quoting the reference number SPC0501).

**No. 21730****SDSS-II Observer****APACHE POINT OBSERVATORY**

**POB 59**  
**Sunspot, New Mexico 88349-0059**  
**USA**  
**Tel:**  
**URL1: <http://www.apo.nmsu.edu>**  
**(Apache Point Observatory)**  
**URL2: <http://www.sdss.org>**  
**(Sloan Digital Sky Survey)**

***Attention: Bruce Gillespie, Site Operations Manager***

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The Sloan Digital Sky Survey-II (SDSS-II) is seeking technical- and data-oriented astronomers for positions as additional SDSS-II Observers to conduct Survey observing at Apache Point Observatory (APO).

SDSS-II is a three-component extension to the SDSS: the Legacy survey will acquire more extragalactic redshifts in the North Galactic Cap; the SEGUE survey will undertake a major new imaging and spectroscopic survey of Galactic structure; and the Supernova survey will detect and measure ~200 Type Ia supernovae at intermediate redshifts. Using the 2.5-meter SDSS telescope, Observers will make five-bandpass imaging observations of over 12,000 square degrees of sky and obtain the spectra of over 1 million galaxies, quasars and stars using a 54-CCD imaging camera, a 640-fiber spectrograph, and a photometric calibration telescope.

Observers are full scientific participants in the SDSS-II; they are encouraged to undertake research programs with the data and to take advantage of the SDSS-II collaboration's network of scientific effort.

Data for SDSS-II will be acquired from 1 July 2005 through 30 June 2008, and we expect that Observers will wish to participate in the entire survey.

Responsibilities include nightly operation of SDSS telescopes, monitoring the data streams and system performance, evaluating data quality and observing efficiency, and making decisions about observing plans. Work entails a non-standard work schedule, including daytime evaluation of system performance and planning of future observations.

We seek individuals with a PhD in astronomy or equivalent academic background, but all degreed applicants with appropriate experience and strong scientific motivation will be considered. Relevant experience includes hands-on telescope operation (with attendant mechanical and computer expertise); proficiency in Unix/Linux, TCL, IDL, C, and IRAF; imaging and spectroscopic data reduction; and CCD instrumentation and electronics. Unix programming skills are desirable.

Please send application letter and curriculum vitae (naming three references) to above, hardcopy only (e-mail submissions not accepted). Positions will remain open until filled. Employment is contingent on funding and eligibility for employment in U.S. EEO/AA

**No. 21736**  
**Postdoctoral Positions and Visiting Fellowship Positions in Theoretical/Computational**

**Astrophysics****THEORETICAL INSTITUTE FOR ADVANCED RESEARCH IN ASTROPHYSICS, AS AND NTHU, TAIWAN****TIARA, 8F, General Building II, National Tsing Hua University****101, Sec. 2, Kuang Fu Road****Hsin-Chu, Taiwan 300****ROC****Tel: +886-3-5742777****FAX: +886-3-5742679****URL1: <http://www.tiara.sinica.edu.tw>****(TIARA)****URL2: <http://www.asiaa.sinica.edu.tw>****(ASIAA)****Email Submission Address: [tiara-admin@tiara.sinica.edu.tw](mailto:tiara-admin@tiara.sinica.edu.tw)****Email Inquiries: [tiara-admin@tiara.sinica.edu.tw](mailto:tiara-admin@tiara.sinica.edu.tw)*****Attention: Ms. Rebecca Zheng, Office Administrator***

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The newly established Theoretical Institute for Advanced Research in Astrophysics (TIARA) is seeking applications to fill several postdoctoral positions and visiting fellowship positions in theoretical/computational astrophysics starting in Fall 2005 or earlier. Postdoctoral appointments are for an initial two year term and the visiting fellow appointments are for durations of two to twelve months.

TIARA is a joint collaboration between the National Tsing Hua University based in Hsinchu and Academia Sinica based in Taipei and has a mission to carry out research at the highest level and to establish a vigorous visitors program in theoretical astrophysics. Scientists connected with TIARA are Michael Cai, Hsiang-Kuang Chang, Dean-Yi Chou, Hsien Shang, Frank Shu, and Chi Yuan in Taiwan and Eugene Chiang, Dong Lai, Zhi-Yun Li, Doug Lin, B.C. Low, Chung-Pei Ma, Ue-Li Pen, and Ron Taam in North America.

Present research at TIARA include investigations in the areas of Cosmology and Large Scale Structure, Galactic Dynamics, Star and Planet Formation, Solar Physics, High Energy/Relativistic Astrophysics and Computational Fluid Dynamics and Magnetohydrodynamics. The successful candidates will also have the opportunity for collaborations with scientists in the ongoing observational programs (SMA, AMiBA, CFHT, and TAOS projects within the Academia Sinica Institute of Astronomy and Astrophysics ( <http://www.asiaa.sinica.edu.tw> ).

Applicants should submit a curriculum vita, a brief summary of research and future research plans, and arrange for three letters of recommendation to be sent or faxed to Ms. Rebecca Zheng, TIARA Positions, at this postal address: Physics Department, National Tsing Hua University 101, Sec. 2, Kuang Fu Road, Hsin-Chu, Taiwan 300. We encourage e-mail submissions to: [tiara-admin@tiara.sinica.edu.tw](mailto:tiara-admin@tiara.sinica.edu.tw)

Office Location: 8F, General Building II, National Tsing Hua University, 101, Sec. 2, Kuang-Fu Rd., Hsin-Chu, Taiwan 300

The closing date for applications is May 31, 2005

**No. 21737****Postdoctoral and Senior Research Awards in the Space and Planetary Sciences****NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES**

Tel:

URL1: <http://www.national-academies.org/rap>***Attention: NRC/NA Research Associateship Programs***

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National Research Council Research Associateship Programs:

## Postdoctoral Research Awards in the Space and Planetary Sciences

The National Research Council of the National Academies is accepting applications for awards for independent postdoctoral research in residence at the Naval Research Laboratory in Washington, DC, the Air Force Research Laboratory at Hanscom AFB, MA and the US Air Force Academy in Colorado Springs, CO.

Awardees design their own research projects to be compatible with the interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients range from \$55,000 to \$60,000 and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance.

Annual application deadlines are February 1, May 1, August 1, and November 1. Detailed program information, including instructions on how to apply, can be found at: [www.national-academies.org/rap](http://www.national-academies.org/rap) Only online applications will be accepted.

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

**No. 21749****Computational Astrophysics****THE UNIVERSITY OF IOWA****Dept. of Physics and Astronomy****704 Van Allen Hall****Iowa City, IA 52242****USA**

Tel: 319-335-3007

FAX: 319-335-1753

Email Submission Address: [benjamin-chandran@uiowa.edu](mailto:benjamin-chandran@uiowa.edu)Email Inquiries: [benjamin-chandran@uiowa.edu](mailto:benjamin-chandran@uiowa.edu)***Attention: Ben Chandran, Professor***

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**Postdoctoral Position in Computational Astrophysics**

Applications are invited for a postdoctoral position in computational astrophysics at the University of Iowa. The candidate should have experience in large-scale numerical simulations of fluid, MHD, or plasma systems. The research will focus on turbulence and convection in clusters of galaxies, and also on cluster formation.

The position is for two years, and is renewable for a third year. Applicants should hold a PhD in astrophysics, physics, or applied mathematics, and should submit a CV, brief description of research interests, and at least two letters of recommendation. Review of applications will begin June 1, 2005 and will continue until the position is filled. The University of Iowa is an equal opportunity employer. Women and minorities are encouraged to apply.

**No. 21753****Postdoctoral Research Assistant in Theoretical Studies of Star Forming Regions****SCHOOL OF PHYSICS AND ASTRONOMY UNIVERSITY OF LEEDS****University of Leeds****Leeds, West Yorkshire LS2 9JT****United Kingdom****Tel: 44-113-343-3885****FAX: 44-113-343-3900****URL1: <http://www.leeds.ac.uk>****(click on jobs)****Email Submission Address: [twh@ast.leeds.ac.uk](mailto:twh@ast.leeds.ac.uk)****Email Inquiries: [twh@ast.leeds.ac.uk](mailto:twh@ast.leeds.ac.uk)*****Attention: Tom Hartquist, Professor***

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A Postdoctoral Research Assistant (PDRA) is required to conduct research in collaboration with Professors J. E. Dyson, S. A. E. G. Falle, and T. W. Hartquist and Dr. J. M. Pittard on star formation and star forming regions.

You will have a doctorate in Astronomy or Astrophysics or relevant area in Applied Mathematics or Physics and will have already had papers accepted for publication in major refereed journals. Experience in diffuse astrophysical media, computational astrophysical fluids, and/or computational astrophysical magnetohydrodynamics is desirable.

The post is available for a fixed term of three years. The starting date will be negotiable but will ideally be in the period of 1 October 2005 to 15 January 2006.

The salary will be on the Research 1A scale starting at £19,460 p. a.

For informal enquiries and an application pack, please contact Tom Hartquist, email [twh@ast.leeds.ac.uk](mailto:twh@ast.leeds.ac.uk)

To apply online go to the University of Leeds webpage and click on 'jobs'. Job ref 310402. The closing date is 15 June 2005.

**No. 21759****TECHNICAL STAFF MEMBER IN ASTROPHYSICS****PRINCETON UNIVERSITY****Dept. of Astrophysical Sciences****Peyton Hall; Ivy Lane****Princeton, NJ 08544****USA****Tel:**

**FAX: 609-258-1020**

**URL1: <http://www.astro.princeton.edu>**

**(Department homepage)**

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

**(SDSS)**

**Email Inquiries: [gk@astro.princeton.edu](mailto:gk@astro.princeton.edu)**

***Attention: Jill Knapp, Professor***

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The Department of Astrophysical Sciences, Princeton University, expects to have one or more positions in the area of software and computing support for the acquisition, reduction, analysis, and testing of photometric and spectroscopic data obtained by the Sloan Digital Sky Survey, a multi-institution project to carry out an imaging and redshift survey, and other possible current and future large astronomical instrumentation projects. SDSS measures the sky at five bands, u,g,r,i, and z, using a large format CCD array, and spectra are obtained by a pair of multi-fiber spectrographs. The data reduction is done by a series of automated pipelines which calibrate and correct the data, find and measure objects, and produce digital catalogues, images and spectra for science analysis. Among other things, the Princeton SDSS group will run and test the global photometric calibration pipeline and run the spectroscopic pipeline. We seek an individual who is responsible for the overall operation of these pipelines at Princeton. The tasks include: ensuring that the spectroscopic and photometric calibration data are reduced, stored, and accessible; running tests; maintaining and trouble-shooting the data reduction hardware and software systems; ensuring that the relevant observational data are transferred from the observatory (Apache Point, New Mexico); and ensuring that the data are tested and documented. The successful applicant will work with the Princeton SDSS group, whose members are involved in pipeline development, testing, and astronomical analysis, and also with the larger SDSS collaboration.

We seek persons with at least five years' experience in astronomical observing and data acquisition and expertise in running and maintaining complex computer systems. Systems-level knowledge of LINUX is essential. Experience in TCL, C, C++, software engineering practices and optical telescope hardware and software is highly desirable. The appointment(s) will be made to the technical staff at a salary and level commensurate with experience, for an initial period of one year which can be renewed for one or more years depending on satisfactory performance and availability of funding.

Please send Vita, list of publications, and detailed description of relevant experience, and arrange for three letters of recommendation to be sent, to: Professor Jill Knapp Department of Astrophysical Sciences Princeton University Princeton, NJ 08544

We will begin to evaluate applications on June 1, 2005, and will accept them thereafter until suitable candidates are found. The position is offered subject to the availability of funding. Further information about the SDSS is available via <http://www.sdss.org> or by email from [gk@astro.princeton.edu](mailto:gk@astro.princeton.edu). For information about applying to Princeton, please link to <http://web.princeton.edu/sites/dof/ApplicantsInfo.htm> EEO/AA

**No. 21766**

**Editor, Publication of the Astronomical Society of the Pacific  
ASTRONOMICAL SOCIETY OF THE PACIFIC**

**950 N. cherry Ave  
Tucson, AZ 85726  
USA  
Tel: 520 318 8526  
FAX: 520 318 8451  
Email Submission Address: [garmany@noao.edu](mailto:garmany@noao.edu)  
Email Inquiries: [garmany@noao.edu](mailto:garmany@noao.edu)**

***Attention: Dr. Catharine Garmany***

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The Astronomical Society of the Pacific is soliciting both applications and nominations of candidates for the position of Editor of the Publications of the Astronomical Society of the Pacific (PASP). This person will replace the current Editors, Anne Cowley and David Hartwick, who complete their term at the end of 2005.

The new Editor will be responsible for maintaining the continued excellence of the Journal, which has been in existence since 1898. The successful applicant should have the following qualifications

1. Recognized stature and achievement in astronomy and astrophysics.
2. Administrative experience managing both peers and staff.
3. A clear vision for the future of the PASP in concert with the strategic goals of the ASP.
4. Experience as a referee.

The Editor is responsible for the editorial policies and standards for the Journal and for soliciting peer reviews of all papers. The Editor has help from the two associate editors for instrumentation. The Editor will:

1. Make all decisions about which papers will be accepted for publication and will communicate such decisions to the author.
2. Handle the interface with the publisher, University of Chicago Press, and insure the continuing high quality of the PASP.
3. Prepare and oversee the Journal's budget with funds provided by the ASP
4. Report to the ASP Board of Directors on the status of the PASP

Although other options are possible, it is expected that the Editor will operate from his/her home institution and be compensated at roughly a quarter-time level through a contract from the ASP to that institution. The ASP will support the equivalent of a half time assistant editor to be selected and managed by the Editor.

Candidates for this position should submit a cover letter, CV, bibliography, and names of three references, to the Chair of the Search Committee, Catharine Garmany, NOAO, 950 N. Cherry Ave, Tucson AZ 85726, or electronically to [Garmany@noao.edu](mailto:Garmany@noao.edu)

**No. 21767**  
**Postdoctoral Research Position in Galactic Dynamics**  
**WESLEYAN UNIVERSITY**  
**Van Vleck Observatory**  
**Middletown, CT 06459-0123**  
**USA**  
**Tel: 860-685-2130**  
**FAX: 860-685-2131**  
**URL1: <http://astro.wesleyan.edu>**  
**(Wesleyan University Astronomy Department)**  
**URL2: [http://planetquest.jpl.nasa.gov/SIM/sim\\_index.html](http://planetquest.jpl.nasa.gov/SIM/sim_index.html)**  
**(Space Interferometry Mission's homepage)**  
**Email Submission Address: [shettleworth@wesleyan.edu](mailto:shettleworth@wesleyan.edu)**  
**Email Inquiries: [kvj@astro.wesleyan.edu](mailto:kvj@astro.wesleyan.edu)**

***Attention: Linda Shettleworth, Administrative Assistant***

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Applications are invited for a post-doctoral position in galactic dynamics working with Kathryn Johnston in the Astronomy Department at Wesleyan University. The position involves preparatory work in support of the Space Interferometry Mission's Galactic Dynamics Key Project Team. The goal of the Key Project is to measure the mass distribution in the Milky Way, from the bulge to the outer halo. The postdoc is expected to build models of ground-based data already collected by the team. The models will be used for interpreting this data set, assessing the optimal strategy for selecting SIM targets from it and simulating the final analysis of the SIM data. The work will involve collaborations with the Project's Principal Investigator, Steven Majewski (University of Virginia) and other theorists (David Spergel and Scott Tremaine, Princeton University) on the team.

Applicants with modeling skills on either galactic or cosmological scales (or both) are encouraged to apply. The expected starting date is on or after October 1st 2005. Applicants should hold a Ph.D. by the start of the position. The appointment is for one year, renewable for up to two more years based on satisfactory performance and expected funding resources. Applicants should send a curriculum vitae, bibliography and statement of research interests, and arrange to have three letters of recommendation arrive by July 1st 2005 to the above address. Wesleyan University encourages applications from women and minority candidates.

**No. 21769**  
**Predocctoral Fellowship in Solar Physics (Helioseismology)**  
**MAUI SCIENTIFIC RESEARCH CENTER, UNIVERSITY OF NEW MEXICO**  
**Tel: (001) 808 875-2389**  
**FAX: (001) 808 875-2387**  
**URL1: [http://panda.unm.edu/acadadv/pandaprop/predoc\\_maiui.html](http://panda.unm.edu/acadadv/pandaprop/predoc_maiui.html)**  
**Email Submission Address: [stuartj@msrc.unm.edu](mailto:stuartj@msrc.unm.edu)**  
**Email Inquiries: [stuartj@msrc.unm.edu](mailto:stuartj@msrc.unm.edu)**

***Attention: Stuart M. Jefferies***

## New Jobs This Month

**No. 21776**

**Postdoctoral Research Associate**

**UNIVERSITY OF ARIZONA**

**Tel:**

***Attention: Linda Hickcox***

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Applicants are invited for two postdoctoral positions associated with the High Resolution Imaging Science Experiment (HiRISE) located at the Lunar and Planetary Laboratory at the University of Arizona. Research emphasis will be on Mars and to serve as targeting specialists for the HiRISE project to be launched on the Mars Reconnaissance Orbiter in August of 2005. Work will begin in 2005 or early 2006 and support is expected to be available for at least three years with a starting salary range of \$36,000 to \$42,000 (which may be negotiable). The research area of special interest is Mars geology that is relevant to HiRISE, including fieldwork on terrestrial analogs and quantitative studies using digital topography and other data. Researchers with primary experience and training in terrestrial geology are welcome.

The University of Arizona is an AA/EEO employer - M/W/D/V. For a complete job description, minimum qualifications, and to apply online please see [www.hr.arizona.edu/](http://www.hr.arizona.edu/) and reference job #32875.

**No. 21777**

**Head of Science Operations at Gemini South**

**AURA/GEMINI OBSERVATORY**

**670 N. A'ohoku Place**

**Hilo, HI 96720**

**USA**

**Tel:**

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

**(*Gemini Observatory Home Page*)**

**URL2: <http://www.gemini.edu/jobs>**

**(*Gemini Observatory Jobs Page*)**

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

**Email Inquiries: [ppuxley@gemini.edu](mailto:ppuxley@gemini.edu)**

***Attention: Human Resources/HSO***

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The Gemini Observatory has available a position to lead and manage day-to-day science operations of the Gemini South telescope. The Head of Science Operations will lead and manage the team of about 25 astronomers, System Support Associates and Data Analysts in the preparation and execution of queue and classical science programs at the telescope, the multi-instrument queue observing process and the data quality control and handling system. The Gemini South Head of Science Operations will work in close collaboration with their direct counterpart at Gemini North and with the Associate Director for Science Operations to maintain an effective, streamlined and standardized observing process at both Gemini Telescopes. The Heads of Science Operations at the two Gemini sites will work to maintain a

vibrant scientific life at the Observatory and are expected to conduct a vigorous research program.

Active astronomers and scientists with experience in science management and/or willing to take a new challenge are invited to apply. Candidates should have a Ph. D. in astronomy or in a relevant field of the physical sciences. Candidates with a strong background in astronomical research are preferred. The Head of Science Operations at Gemini South will be based in La Serena, Chile. The desired starting date for the position is in late 2005. Appointment is at the tenure-track, or in exceptional cases tenured, level or as a senior scientist on the parallel track. The successful candidate will have time available for astronomical research focusing on areas in which Gemini can make a major impact.

The deadline for applications is 31 July 2005, to the email or postal addresses given. Please include current resume, research statement, a cover letter relating your experience, education and background to the needs of the position, and the names and contact information of three individuals familiar with your work/credentials/qualifications from whom a reference may be obtained. Questions about this position should be directed to the Head of Gemini South, Phil Puxley (ppuxley@gemini.edu).

**No. 21778**

**Tenure-Track Faculty Position in Solar and Space Physics**

**UNIVERSITY OF COLORADO -- BOULDER**

**University of Colorado**

**1234 Innovation Drive**

**Boulder, Colorado 80303**

**USA**

**Tel: 303-735-4726**

**FAX: 303-735-4843**

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

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

***Attention: Bonnie Kae Grover, Asst. to the Director***

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The University of Colorado at Boulder is seeking a new faculty member in Solar and Space Physics under the aegis of the NSF "Faculty Development in Space Sciences" program solicitation. Appointment is expected at either the Assistant or Associate Professor level, depending on experience. The successful candidate will be rostered at the University's Laboratory for Atmospheric and Space Physics (LASP), a large multidisciplinary research institution, and hold a tenure track appointment in one of several departments (including Astrophysical and Planetary Sciences, Physics, Aerospace Engineering, or Atmospheric and Ocean Sciences), depending on area of expertise. We are especially interested in candidates with research and teaching interests in experimental or theoretical solar physics, with an emphasis on the dynamics of "solar magnetism at all scales" that impact the Earth and the geospace environment. However, outstanding candidates in all areas of solar and space physics are encouraged to apply.

The University of Colorado and the surrounding research institutions are experiencing a new level of integration and interaction in solar and space physics. This position represents the capstone to this transformation. As such, the successful candidate can expect substantial

support for postdoctoral, graduate and undergraduate fellows. In addition, the state-of-the-art engineering, computational, and laboratory facilities of LASP will be at the candidate's disposal. The appointee is expected to participate actively in an innovative program of graduate and undergraduate teaching that involves multiple departments on campus and institutions of the broader Boulder solar physics and space science community. The appointee will also be encouraged and actively supported to carry out a highly collaborative research program with colleagues from the University, the National Center for Atmospheric Research (NCAR), the National Oceanic and Atmospheric Administration (NOAA), the Southwest Research Institute (SwRI) and other entities in the Boulder community. Applicants should hold a Ph.D. and have extensive research and teaching experience.

Applicants for this position should submit (preferably in electronic form) a cover letter, a curriculum vita, a description of their research and teaching plans and experience, and the names of five references to:

Dr. Daniel Baker, Chair c/o Ms. Bonnie Kae Grover Solar and Space Physics Faculty Position  
Laboratory for Atmospheric and Space Physics 1234 Innovation Drive University of Colorado  
Boulder, CO 80303-0590 SSPsearch@lasp.colorado.edu 303-735-4726

Reviews of applications will begin 1 June 2005 and will continue until the position is filled. The University of Colorado is committed to diversity and equality in education and employment.

**No. 21782**

**Post-Doctoral Research Associate - Experimental Particle Astrophysics**

**STANFORD LINEAR ACCELERATOR CENTER**

**2575 Sand Hill Road**

**Menlo Park, CA 94025**

**United States**

**Tel:**

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

***Attention: Professor Persis Drell, Associate Director of Research***

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**POST-DOCTORAL POSITION, EXPERIMENTAL PARTICLE ASTROPHYSICS WITH GLAST  
AT THE STANFORD LINEAR ACCELERATOR CENTER**

The Stanford Linear Accelerator Center (SLAC) is one of the world's leading laboratories supporting research in high-energy physics. The laboratory's program includes the physics of high-energy electron-positron collisions, high luminosity storage rings, high energy linear colliders, and particle astrophysics and cosmology.

SLAC invites applications for a Post-doctoral Research Associate position to work with the Gamma-ray Large Area Space Telescope (GLAST) Large Area Telescope (LAT) instrument team. The LAT is the major payload of the GLAST DoE/NASA mission and is currently under construction at SLAC/Stanford University. GLAST will be launched by NASA in late summer 2007. For details of the LAT instrument, science program, and collaboration see <http://www-glast.stanford.edu/index.html> .

These positions are highly competitive and require a background of research in high-energy

physics and/or particle astrophysics. Applicants should hold a recent Ph. D. in physics, or in astronomy with a strong physics background. He/she is expected to play a significant role in understanding the calibration and performance of the LAT from integration and test to flight operations, and to participate in the preparations for and in the analysis of the flight science data. Experience in high-energy astrophysics is desirable. The tenure of the position is two years, with the potential for subsequent annual renewals subject to satisfactory performance.

To receive full consideration, all application material should be received by July 31, 2005; past that date, the applications will be considered until the position is filled. Applicants should send a letter stating their physics research interests along with a CV and three references to:

Professor Persis Drell, Associate Director of Research, Stanford Linear Accelerator Center, 2575 Sand Hill Road, Menlo Park, CA 94025

**No. 21783**

**Postdoctoral Research Fellow**

**CALIFORNIA INSTITUTE OF TECHNOLOGY**

**770 So. Wilson Ave.**

**MS 100-22**

**Pasadena, CA 91125**

**USA**

**Tel:**

**URL1: [http://planetquest.jpl.nasa.gov/SIM/sim\\_index.html](http://planetquest.jpl.nasa.gov/SIM/sim_index.html)**

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

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A Postdoctoral Fellowship is available to work on a project to find planets around young stars. The Planets Around Young Stars program is a Key Project on NASA's Space Interferometer (SIM) PlanetQuest mission ( [http://planetquest.jpl.nasa.gov/SIM/sim\\_index.html](http://planetquest.jpl.nasa.gov/SIM/sim_index.html) ). This project will look for Jupiter mass planets around 150 young stars spanning a range of ages from 1-100 Million years ( <http://spider.ipac.caltech.edu/staff/chas/sim/youngstarstalk.pdf> ). The successful applicant would assist in making precursor observations to identify the best stars to include in the SIM sample. In particular, we are using optical spectroscopy with ~500 m/s precision and advanced coronagraphic imaging to survey of some 200 stars in nearby star forming regions (Taurus, Chamaeleon, and ScoCen) to search for stars with stellar and sub-stellar companions. While stars with nearby companions may ultimately be rejected for SIM's planet search program, a uniform survey capable of finding sub-stellar companions to T Tauri stars is of itself scientifically compelling. The successful candidate should have demonstrated skills in the application of optical spectroscopy to the study of T Tauri and other young stars and would have primary responsibility to conduct the spectroscopic surveys using telescopes in the northern and southern hemispheres. In addition, the Postdoctoral Fellow would be involved in target selection and planning for the overall SIM Key project. The Postdoctoral Fellow would work at the Michelson Science Center, on the Campus of the California Institute of Technology, for a minimum of two years with a possible extension to a third year.

To apply, please send resume, bibliography, and statement of research to the above address, and have three letters of reference forwarded to the same address. Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

**No. 21784**  
**Visiting Assistant Professor (astrophysics)**  
**ILLINOIS WESLEYAN UNIVERSITY**  
**P.O. Box 2900**  
**Bloomington, IL 61702**  
**USA**  
**Tel: 309-556-3418**  
**FAX: 309-556-3864**  
**URL1: <http://titan.iwu.edu/~physics>**  
**(Physics Department website)**  
**URL2: <http://www.iwu.edu/~iwujobs>**  
**(IWU Job Information)**  
**Email Submission Address: [njaggi@iwu.edu](mailto:njaggi@iwu.edu)**  
**Email Inquiries: [njaggi@iwu.edu](mailto:njaggi@iwu.edu)**

***Attention: Narendra Jaggi, Chair, Department of Physics***

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The Department of Physics at Illinois Wesleyan University invites applications for a one-year visiting faculty position beginning Fall 2005. Candidates should possess a Ph.D. in Physics or Astronomy (ABD also considered), and be excited about the possibility of teaching in an undergraduate physics department that emphasizes close faculty-student interaction. Teaching responsibilities will include Fundamental Astronomy, our most popular general education course taken typically by non-science majors, and the associated astronomy labs. Additionally, the visiting faculty will teach a couple of classes or laboratory sections for physics majors. We have a preference for someone who has an affection for and experience in laboratory work. Complete applications (a cover letter, CV, unofficial transcripts of graduate school work, a description of teaching philosophy) and two to three letters of reference (addressing the candidate's potential and past performance as a teacher) should be sent, preferably by e-mail to the address [njaggi@iwu.edu](mailto:njaggi@iwu.edu) or by US mail to Narendra Jaggi, Department of Physics, Illinois Wesleyan University P.O. Box 2900, Bloomington, IL 61702-2900. More information about the department and facilities is available at <http://titan.iwu.edu/~physics> . Inquiries may be sent to [njaggi@iwu.edu](mailto:njaggi@iwu.edu). Review of applications will begin immediately and continue until the position is filled. Illinois Wesleyan University is an Equal Opportunity Employer. For further information see our jobs web page at <http://www.iwu.edu/~iwujobs> .

**No. 21785**  
**Department of Physics and Astronomy, Department Chair (associate or full professor level)**  
**UNIVERSITY OF DENVER**  
**Dept. of Physics & Astronomy**  
**2112 E Wesley Ave**  
**Denver, CO 80208**  
**USA**  
**Tel: 3038712238**  
**FAX: 3038714405**  
**URL1: <http://www.dujobs.org>**  
**Email Submission Address: [hneumann@du.edu](mailto:hneumann@du.edu)**  
**Email Inquiries: [bstephen@du.edu](mailto:bstephen@du.edu)**

**Attention: Herschel Neumann, Search Committee Chair**

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The Department of Physics and Astronomy at the University of Denver is accepting applications for the tenure-track position of department chair at the professor or associate professor level. The department presently has 6 tenured faculty, planned to grow over the next five years, 5 research professors, and several adjunct faculty and research professionals. The department offers bachelor, master, and doctoral degrees. Current research areas include atmospheric spectroscopy, condensed matter physics, astronomy and astrophysics, and atomic collisions. The candidate is expected to be a mid-career physicist with an established record of research funding, with research interests closely related to one or more of the current areas in the department. A Ph.D. in physics and administrative experience are required. Preference will be given to candidates who have been a faculty member for at least 10 years in a doctorate-awarding department. The chairperson supervises all aspects of department operations, is expected to provide strong academic and administrative leadership, and be a participant in the teaching and scholarly mission of the department. Competitive salaries and start-up packages will be provided to new hires. The University of Denver, the oldest independent university in the Rocky Mountain region, enrolls approximately 4,500 undergraduates and 5,000 graduate students and has a Carnegie Foundation classification of Doctoral/Research University-Extensive. Applicants should submit a curriculum vitae, a list of publications, statements of teaching, scholarly, and administrative interests and experience, and the names of four individuals who may be contacted for letters of recommendation. Applications must be submitted through <https://www.dujobs.org>. Questions about the position may be directed to Physics and Astronomy Chair Search Committee, Department of Physics and Astronomy, University of Denver, Denver, CO 80208, via [bstephen@du.edu](mailto:bstephen@du.edu). Review of applications will begin on 15 June 2005 and continue until the position is filled. The University of Denver is an equal opportunity affirmative action institution and encourages applications from women and minority candidates.

**No. 21786****Postdoctoral Fellowship in Theoretical Astrophysics / Plasma Astrophysics****UNIVERSITY OF ROCHESTER****Department of Physics and Astronomy****University of Rochester****Rochester, NY 14627****USA****Tel: 1-585-275-0537****FAX: 1-585-273-2813****URL1: <http://www.pas.rochester.edu>****(UR Physics & Astronomy Home Page)****Email Submission Address: [blackman@pas.rochester.edu](mailto:blackman@pas.rochester.edu)****Email Inquiries: [blackman@pas.rochester.edu](mailto:blackman@pas.rochester.edu)****Attention: Eric Blackman, Professor**

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The theoretical astrophysics group at the University of Rochester invites applications for a postdoctoral position in theoretical astrophysics or plasma physics and the overlap between the two fields. Preference will be given to candidates with expertise in high energy astrophysics, relativistic plasma astrophysics, or computational plasma physics with PIC,

Vlasov, or MHD codes. Example areas of research include particle acceleration in high energy sources, magnetic reconnection, jets, accretion disks and coronae, plasma and MHD turbulence, and the amplification and dynamics of magnetic fields. The excellence of the candidate is more important than the specific focus of previous research.

The position is for 2 years with the possibility of extension for a third year. The candidate can expect significant independence as well as the opportunity for close collaboration with an active group in a supportive and interactive working environment. In addition to the activity in the Department of Physics and Astronomy, the University is home to the Laboratory for Laser Energetics, a major plasma physics research center in the US.

Applicants should submit a CV, a description of research interests, and have three letters of recommendation sent. Consideration of applications will begin July 1, 2005 and will continue until the position is filled. The University of Rochester is an equal opportunity employer.

**No. 21787**

**Physicist (Astrophysics; PhD)**

**MAX-PLANCK-INSTITUT FÜR EXTRATERRESTRISCHE PHYSIK**

**Gießenbachstraße**

**Germany**

**Tel: +49 89 30000 3847**

**URL1: <http://www.mpe.mpg.de>**

**(MPI for Extraterrestrial Physics)**

**URL2: <http://www.mpe.mpg.de/gamma/instruments/integral/www/integral.html>**

**(INTEGRAL)**

**Email Submission Address: [jcg@mpe.mpg.de](mailto:jcg@mpe.mpg.de)**

**Email Inquiries: [rod@mpe.mpg.de](mailto:rod@mpe.mpg.de)**

**Attention: Jochen Greiner, Dr.**

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The Max-Planck-Institut für extraterrestrische Physik (MPE) in Garching advertises the position of a Physicist (Astrophysics; PhD) as part of ESA's INTEGRAL space science mission targeting gamma-ray astrophysics. It will involve science analysis as part of MPE's high-energy astrophysics group and support services related to the INTEGRAL Data Center (ISDC) in Versoix/Switzerland. Specifically, this position is directed to the support of science analysis through maintenance of the data archive from ISDC as processed at MPE, and through the provision and maintenance of analysis software tools, as well as to the active participation in MPE's astrophysics research using INTEGRAL. It is expected that the applicant is fluent in UNIX computer usage and programming in higher-level languages such as C, and has at least basic knowledge of astrophysics at high energies. The international and collaborative project will involve travel to other team sites, in particular to ISDC in Versoix. The position will start on July 1, 2005 with an initial contract duration of 1 year, and planned extension till end of 2007. The position follows the framework of public service employees in Germany (BAT) and is rated up to BAT grades IIa/IIb. The Max-Planck-Institut für extraterrestrische Physik is an equal-opportunity employer, yet specifically aims at an increase of female employees. For details see [www.mpe.mpg.de/gamma/instruments/integral/www/integral.html](http://www.mpe.mpg.de/gamma/instruments/integral/www/integral.html) or contact Dr. Roland Diehl, ph +49-89-30000-3850, email [rod@mpe.mpg.de](mailto:rod@mpe.mpg.de). Please send your application to Personalabteilung, Max-Planck-Institut für extraterrestrische Physik, POB 1312, D-85748 Garching, Germany (email [gschnell@vw.mpe.mpg.de](mailto:gschnell@vw.mpe.mpg.de)).

**No. 21788**  
**Director, W.M. Keck Observatory**  
**W.M. KECK OBSERVATORY**  
**Department of Astronomy**  
**105-24**  
**Pasadena, CA 91125**  
**USA**  
**Tel: 626.395.2598**  
**FAX: 626.568.9352**  
**Email Submission Address: [rse@astro.caltech.edu](mailto:rse@astro.caltech.edu)**  
**Email Inquiries: [rse@astro.caltech.edu](mailto:rse@astro.caltech.edu)**

***Attention: Dr. Richard R. Ellis, Chair, Search Committee***

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## DIRECTOR, W.M. KECK OBSERVATORY

The University of California and the California Institute of Technology formed the California Association for Research in Astronomy (CARA) to construct and operate the W.M. Keck Observatory. CARA provides oversight of the operation of the Keck observatory and its related equipment, instrumentation, support facilities and infrastructure through its Board of Directors.

The CARA Board seeks a Director for the Observatory to succeed Fred Chaffee, the present director, who is retiring. The Director reports to the CARA Board and is responsible for managing the operations of the observatory within budget so as to maximize its readiness and effectiveness for scientific research. The Director is responsible for recruiting and maintaining high quality technical and administrative staff, developing an annual budget for review and approval, and developing with the Science Steering Committee the short-range and long-range development plans for the observatory. The Director oversees the scheduling of the telescopes for science and engineering and acts as the primary interface with the astronomical user community. The Director maintains effective liaison with the CARA Board, the Science Steering Committee, the University of Hawaii, the local Hawaiian community and other external organizations, in each case ensuring that the Observatory is aware and responsive to their respective needs and desires. The Director is also responsible for maintaining a public outreach office and pursuing and managing public and private fund-raising activities, with guidance from the Board.

**REQUIREMENTS:** Ph.D. in astronomy or related field or equivalent relevant experience. Experience and demonstrated capabilities in managing a scientific research facility and working in a team-oriented environment are essential. The Director must also be skilled in written and oral communications and have the ability to work collaboratively among varied constituencies in order to achieve consensus.

**SALARY RANGE:** Dependent on background and experience and to be negotiated.

**STARTING DATE:** July 1, 2006

**GENERAL INFORMATION:** The Director will be resident at the W.M. Keck Headquarters in Waimea, Hawaii. The initial term of appointment will be from three to five years with the possibility of renewal. Further particulars of the appointment are available on request.

APPLICATIONS: Review of applications will be begun on August 1, 2005, and the recruitment will remain open until the position is filled. Applications together with the names of three references should be submitted in confidence to the following address:

Dr. Richard S. Ellis Chair, Search Committee Astronomy 105-24 Caltech Pasadena, CA 91125.

Email submission to [jl@astro.caltech.edu](mailto:jl@astro.caltech.edu) is also acceptable.

**No. 21789**

**Tenure Track Position in Extragalactic Astronomy  
INSTITUTE OF PHYSICS, UNIVERSIDAD DE GUANAJUATO**

**Loma del Bosque 103**

**Lomas del Campestre**

**Mexico**

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

**FAX: 52-477-788-5100 ext. 8410**

**Email Submission Address: [secrea@fisica.ugto.mx](mailto:secrea@fisica.ugto.mx)**

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

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

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The Department of Astronomy (DA) of the Institute of Physics (IFUG) of the University of Guanajuato (Mexico) invites applications for a tenure-track faculty position (different from AAS offer #21679, March 2005) to begin by November 2005. We seek a researcher/lecturer in our lines of research "Observational Cosmology" (preference) or "Formation and Evolution of Galaxies" (see <http://www.astro.ugto.mx> ). Interest in instrumentation or theory will be an asset. Responsibilities include teaching at both undergraduate and graduate level, research, participation in public outreach and administration.

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

Candidates should submit (a) letter of application including a statement of earliest date available, (b) extended CV with publication list, (c) research plan for 1--2 years, (d) documents demonstrating his/her academic accomplishments, and (e) two letters of recommendation to both of the following addresses, by July 31, 2005:

Dr. Mauro Napsuciale, Instituto de Fisica, Universidad de Guanajuato, Loma del Bosque 103, Lomas del Campestre, Leon GTO 37150, Mexico, (email: [secrea@fisica.ugto.mx](mailto:secrea@fisica.ugto.mx) , phone/FAX +52-477-788-5100 ext. 8414/8410) and Dr. Heinz Andernach, Head of Search Committee, Astronomy Department, Apdo. Postal 144, Guanajuato, GTO 36000, Mexico,

**No. 21790**

**ASTRONOMER, DUST/X-RAYS/INTERSTELLAR MEDIUM**

**JOHNS HOPKINS UNIVERSITY**  
**3400 N. Charles St.**  
**Baltimore, MD 21218**  
**USA**  
**Tel: 4105160557**  
**FAX: 4105165096**  
**Email Submission Address: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**  
**Email Inquiries: [yaqoob@pha.jhu.edu](mailto:yaqoob@pha.jhu.edu)**

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

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The Johns Hopkins University Center for Astrophysical Sciences seeks a scientist to work with Dr. Randall Smith at the Goddard Space FlightCenter's Laboratory for High Energy Astrophysics. The successful candidate will work on data from high energy observations of X-ray dust halos, including analysis of correlations with infrared, optical, and UV observations of dust grains as well as theoretical calculations of scattering. In particular the research will involve analysis of new and archival data from Chandra and XMM-Newton. Supporting work at other wavelengths may also be involved. The scientist will also be encouraged to maintain and develop his/her own research interests. Experience in either X-ray data analysis or studies of IS dust grains would be an advantage.

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

Applications received before 1 July, 2005 will receive full consideration. Send application and vita, including brief description of past and proposed research to: Dr. Tahir Yaqoob, Department of Physics & Astronomy, The Johns Hopkins University, Baltimore, MD 21218. Applicants should also arrange to have three letters of reference sent. The Johns Hopkins University encourages applications from women and minority candidates. AAE/EOE.

**No. 21792**  
**Assistant Astronomer--Solar**  
**UNIVERSITY OF HAWAII, INSTITUTE FOR ASTRONOMY**  
**2680 Woodlawn Drive**  
**Honolulu, Hawaii 96822**  
**USA**  
**Tel: 808-956-8968**  
**Email Inquiries: [kuhn@ifa.hawaii.edu](mailto:kuhn@ifa.hawaii.edu)**

***Attention: Dr. Rolf-Peter Kudritzki, Director, IFA***

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The Institute for Astronomy (IfA) at the University of Hawai'i invites applications for a state-funded, tenure-track, faculty position. The appointment will be made at the Assistant Astronomer level. The IfA has been chosen as the host for the National Advanced Technology Solar Telescope and is presently enlarging its solar research program with a new education, research, and technology facility on the island of Maui, of which this new faculty appointment is expected to make collaborative use. The individual selected to fill the new position is expected to lead a program in theoretical and computational plasma physics relevant for solar research.

He/she will be expected to teach at least one undergraduate or graduate course per academic year, and participate in the academic and scientific affairs of the IfA. Preference will be given to candidates willing to devote much of their research and teaching effort in association with the new facilities on Maui. Minimum Qualifications: Ph.D. in astronomy or physics, two years of postdoctoral experience, and demonstrated research excellence in theoretical or computational plasma physics or astrophysics. The salary will be commensurate with qualifications and experience. To apply, please send curriculum vitae, statement of research accomplishments and goals, and three letters of reference to Dr. Rolf Kudritzki, Director, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822. (Please reference position number 84897). Further details may be obtained from Dr. Jeff Kuhn at 808-956-8968 or email [kuhn@ifa.hawaii.edu](mailto:kuhn@ifa.hawaii.edu). Closing date: Completed applications and reference letters should be received by July 31, 2005. The University of Hawaii is an EEO/AA employer and encourages applications from women and minorities.

**No. 21793****Lecturer in Physics and Laboratory Manager****AGNES SCOTT COLLEGE****141 E. College Ave.****Decatur, GA 30030****USA****Tel:****Email Submission Address: [cdepree@agnesscott.edu](mailto:cdepree@agnesscott.edu)****Email Inquiries: [cdepree@agnesscott.edu](mailto:cdepree@agnesscott.edu)*****Attention: Christopher De Pree, Chair, Department of Physics & Astronomy***

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The Agnes Scott College Department of Physics & Astronomy invites applications for a one-year renewable faculty position in physics to begin August 15, 2005. We seek a candidate with a strong commitment to undergraduate teaching. Duties will include teaching introductory non-calculus physics, organizing and teaching introductory physics labs (for calculus and non-calculus based physics courses), and teaching an additional course in the candidate's specialty. Introductory physics courses serve not only physics and other science majors, but also pre-medical programs and students fulfilling general education standards. A Ph.D. in physics or a related field is required and teaching experience is preferred. Review of all applications will begin June 1, 2005, and continue until the position is filled. To apply, send (1) a curriculum vitae including a list of publications and relevant teaching experience, (2) a description of teaching philosophy for undergraduate physics, and (3) a description of your research interests. Applications should include contact information (mailing address, email address and telephone number) for three references. Address applications to Chris De Pree, Chair, Department of Physics & Astronomy, Agnes Scott College, 141 E. College Ave., Decatur, GA 30030. Inquiries about the position should be forwarded to: Chris De Pree, Search Committee Chairman, at [Cdepree@agnesscott.edu](mailto:Cdepree@agnesscott.edu). Agnes Scott College is a highly selective, independent national liberal arts college for women located in metropolitan Atlanta. The College has a strong commitment to diversity and urges members of underrepresented groups to apply. EOE.

**No. 21794****Postdoctoral Research Position in Extragalactic Astronomy****SPACE TELESCOPE SCIENCE INSTITUTE**

**3700 San Martin Dr  
Baltimore, Maryland 21218  
USA  
Tel:  
URL1: <http://www.stsci.edu>**

***Attention: Lee Peters, HR Assistant***

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Applications are invited for a postdoctoral research position at the Space Telescope Science Institute. The successful applicant will work with Dr. Paul Goudfrooij and collaborators on studies of globular cluster systems associated with early-type galaxies and the bulge component of spiral galaxies, based on deep optical imaging data using the HST Advanced Camera for Surveys as well as optical and near-infrared images taken at ground-based facilities (KPNO, Gemini, ESO/VLT, Subaru). Part of the successful applicant's time will be available for independent research in related areas.

Candidates must hold a Ph. D. in astronomy or astrophysics. Technical expertise in the following areas is highly desirable: (a) Experience with the reduction and analysis of optical and near-infrared imaging photometry, particularly the analysis of compact objects embedded in diffuse galaxy light; (b) experience in stellar population studies including the use of state-of-the-art population synthesis models.

The position is for at least 12 months, with renewal for second and third years subject to satisfactory performance and availability of funds. STScI, located on the Johns Hopkins University Campus in Baltimore, Maryland, offers an excellent benefit package, competitive salaries, and a stimulating work environment. Applicants should send a cover letter, curriculum vitae, publication list, and a concise (1-3 page) statement outlining relevant interests and experience, and arrange to have three letters of recommendation sent to the address below:

Space Telescope Science Institute ATTN: Lee Peters 3700 San Martin Drive Baltimore, MD 21218

Consideration of applications will start on August 15, 2005, and will continue until the position is filled. The start date could be as early as October 2005, although later starting dates are negotiable.

**No. 21795**

**Research Associate in X-ray Astronomy  
INSTITUTE OF ASTRONOMY, UNIVERSITY OF CAMBRIDGE  
Madingley Road**

**UK**

**Tel: +44 1223 337521**

**FAX: +44 1223 337523**

**URL1: <http://www-xray.ast.cam.ac.uk>**

**(Cambridge X-ray group)**

**URL2: <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18>**

**(PD18 application form)**

**Email Submission Address: [jm@ast.cam.ac.uk](mailto:jm@ast.cam.ac.uk)**

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

**Attention: Mrs J. Moss**

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Research Associate Institute of Astronomy University of Cambridge

The Institute of Astronomy has an immediate vacancy for a Postdoctoral Research Associate to join the X-ray Astronomy group. The group researches the X-ray properties, mechanisms and evolution of clusters of galaxies, active galaxies and the X-ray background, primarily using data from satellites: Chandra; XMM-Newton; ASTRO-E2. Applicants must have a Ph.D. in astronomy or a related field, and will be expected to work independently within strategic guidelines.

24 months funding is currently available but the programme is funded by a rolling grant from the Research Council and further funding is expected. Salary will be on the RA1A scale in the range GBP 19,460 – 29,127 pa.

Applications including a cv, publications list, statement of research interests and PD18 form should be sent to Mrs J. Moss, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, or [jm@ast.cam.ac.uk](mailto:jm@ast.cam.ac.uk) by 01 July 2005. Applicants should arrange for two referees to write to Professor A.C. Fabian c/o Mrs J. Moss at this address by the same date.

**No. 21796****Post doc position - Extragalactic Planetary Nebulae****ASTROPHYSIKALISCHES INSTITUT POTSDAM****An der Sternwarte 16****Germany****Tel: +49 331 7499 395****FAX: +49 331 7499 526****URL1: <http://www.aip.de>****(Institute details)****URL2: [http://www.aip.de/groups/sternphysik/stp/xpn\\_neu.html](http://www.aip.de/groups/sternphysik/stp/xpn_neu.html)****(Further information)****Email Submission Address: [deschoenberner@aip.de](mailto:deschoenberner@aip.de)****Email Inquiries: [mmroth@aip.de](mailto:mmroth@aip.de)****Attention: Detlef Scheonberner, Prof.**

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The Astrophysikalisches Institut Potsdam (AIP) is offering a postdoctoral position for participating in a project devoted to the investigation of Extragalactic Planetary Nebulae, both observationally and theoretically. The successful candidate is expected to prepare and conduct observational campaigns, and to perform extended radiation-hydrodynamics simulations in collaboration with the AIP Stellar Physics Group. The project is linked to the science case for MUSE, a major 2nd generation VLT instrument, currently being built with participation from AIP.

Applicants must hold a Ph.D. in physics or astronomy, and should have experience in astronomical observing and expertise in the reduction and analysis of astronomical data. A good theoretical background in hydrodynamics and radiative transfer is essential.

The initial appointment is for two years, with a possible extension for a third year. The salary is based on the regulations for the German civil service, depending on age and marital status.

The AIP (<http://www.aip.de>) owns excellent (super) computer facilities, and has access to ESO La Silla/Paranal telescopes, PMAS GTO at Calar Alto, and others. It is located in Potsdam/Babelsberg at the southwestern border of Berlin. Both cities host a number of renowned research institutions and are rich in historical places and buildings; their cultural scene is outstanding in Germany.

Applications with the usual materials, including curriculum vita and statement of research interests, should be sent to the address above. Applicants should arrange three letters of recommendation to be sent to the same address. Review of applications will begin July 15, 2005, and will continue until the position is filled.

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

For further information see [http://www.aip.de/groups/sternphysik/stp/xpn\\_neu.html](http://www.aip.de/groups/sternphysik/stp/xpn_neu.html)

**No. 21797**

**Research Associate modelling galaxy evolution  
INSTITUTE OF ASTRONOMY, UNIVERSITY OF CAMBRIDGE  
Madingley Road  
UK**

**Tel: +44 1223 337516**

**FAX: +44 1223 339910**

**URL1: <http://www.ast.cam.ac.uk>**

**(Institute of Astronomy)**

**URL2: <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18>**

**(PD18 Application Form)**

**Email Submission Address: [di@ast.cam.ac.uk](mailto:di@ast.cam.ac.uk)**

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

***Attention: Mrs Di Sword***

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The Institute of Astronomy has a vacancy for a Postdoctoral Research Associate to work on a project involving modelling the evolution of the dwarf spheroidal galaxies of the Milky Way. Candidates with expertise in numerical simulations, galactic astronomy or dynamics are invited to apply. Applicants must have a Ph.D. in astronomy or a related field, and will be expected to work independently within strategic guidelines.

24 months funding is currently available from 1 October 2005 but the programme is funded by a rolling grant from the Research Council and further funding is possible. Salary will be on the RA1A scale in the range £19,460 – 29,127 pa depending on experience.

Applications including a cv, publications list, statement of research interests and PD18 form should be sent to Mrs Di Sword, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, or [di@ast.cam.ac.uk](mailto:di@ast.cam.ac.uk) by 1 July 2005. Applicants should arrange for two referees to write to Dr N.W. Evans, c/o Mrs Sword at this address by the same date.

**No. 21798**  
**Research Associate in Cosmology**  
**IMPERIAL COLLEGE**  
**Astrophysics Group**  
**Blackett Laboratory, Prince Consort Road**  
**UK**  
**Tel: (020) 7594 7526**  
**FAX: (020) 7594 7541**  
**URL1: <http://astro.ic.ac.uk/Research/vacancies.shtml>**  
**URL2: <http://www.imperial.ac.uk/employment/research/index.htm>**  
**URL3: <http://astro.ic.ac.uk/Planck/>**  
**(LPAC)**  
**Email Submission Address: [a.jaffe@imperial.ac.uk](mailto:a.jaffe@imperial.ac.uk)**  
**Email Inquiries: [a.jaffe@imperial.ac.uk](mailto:a.jaffe@imperial.ac.uk)**

***Attention: [a.jaffe@imperial.ac.uk](mailto:a.jaffe@imperial.ac.uk)***

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Applications are invited for a postdoctoral research position in the Imperial College Astrophysics group, beginning 1 August, 2005 or as soon as possible thereafter. The post will be in the broad area of Cosmic Microwave Background Cosmology, and will involve the development of software for the upcoming Planck Surveyor Satellite under the auspices of the London Planck Analysis Center.

A PhD and a strong research background in astrophysics is essential; experience in cosmology in general and the CMB in particular would be an advantage. As the post will involve programming for the Planck pipeline, you will be expected to be able to programme in C++, and will have the opportunity to work with large-scale computing facilities in the UK, US and France.

The appointment will be for two years in the first instance with the possibility of extension. The salary will be in the range of £22,116 - £32,232 per annum, depending on qualifications and experience.

A job description and an application form can be obtained from <http://www.imperial.ac.uk/employment/research/index.htm> . Alternatively please contact Ms Diana Moore, [diana.moore@imperial.ac.uk](mailto:diana.moore@imperial.ac.uk)

Completed applications, including a CV, a statement of research interests, a list of publications and the names of 2 referees (who should be asked to send their references to the same address), should be sent to Dr Andrew Jaffe, Department of Physics, Astrophysics Group, Blackett Laboratory, Prince Consort Road, Imperial College London SW7 2AZ. E-mail: [a.jaffe@imperial.ac.uk](mailto:a.jaffe@imperial.ac.uk).

Closing date: 15 July 2005

**No. 21799**  
**Data Analysis Specialist**  
**AURA/GEMINI OBSERVATORY**  
**670 N. A'ohoku Place**

Hilo, HI 96720

US

Tel:

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

(*Gemini Observatory Home Page*)

URL2: <http://www.gemini.edu/jobs>

(*Gemini Observatory Jobs Page*)

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

***Attention: Human Resources/DAS-A***

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The Gemini Observatory is in search of a dedicated and talented individual to provide operational, technical and archival support for data handling at the Observatory. The person appointed will monitor the flow of astronomical data from the science instruments to the science archive including configuration and operation of the on-line data processing system. In addition, the Data Analysis Specialist will provide both expert data checking and quality assessment for 'queue' data and assistance to visiting 'classical' observers. The position is located at the Gemini North facility in Hilo, Hawaii.

Knowledge of the Unix/Linux operating system and data processing experience is essential. Experience with high-level scripting in Unix/Linux command shell and Python/Perl, as well as programming in C/C++ is advantageous. Requires excellent organizational and communication skills as well as the ability to learn quickly. Preference will be given to applicants familiar with optical and infrared imaging and spectroscopy observing and data processing techniques.

Must have a bachelor's degree in Astronomy, Physics or Computer Science and/or equivalent experience in astronomical data handling. Salary ranges from US\$32,000 to US\$35,000 depending on qualifications and experience.

For further information contact Jean-Rene Roy, Gemini North Associate Director ([jroy@gemini.edu](mailto:jroy@gemini.edu)), or Phil Puxley, Gemini South Associate Director ([ppuxley@gemini.edu](mailto:ppuxley@gemini.edu)).

Send a resume, a statement of experience and development activity interest, and the names of three professional references by July 31, 2005. Applications may be processed as they arrive.

**No. 21800**

**Software Engineer/Astronomical Data Analysis Programmer**

**ANGLO-AUSTRALIAN OBSERVATORY**

**167 Vimiera Road**

**Eastwood**

**Sydney, NSW 2122**

**Australia**

**Tel: +612 9372 4863**

**FAX: +612 9372 4860**

**URL1: <http://www.aao.gov.au/local/www/jobs>**

**Email Submission Address: [gcs@aaoepp.aao.gov.au](mailto:gcs@aaoepp.aao.gov.au)**

**Email Inquiries: [tjf@aaoepp.aao.gov.au](mailto:tjf@aaoepp.aao.gov.au)**

***Attention: Greta Simms, Recruitment Officer***

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ANGLO-AUSTRALIAN OBSERVATORY Software Engineer/Astronomical Data Analysis Programmer A\$63,751 - A\$76,947 per annum\* (plus superannuation contribution and leave loading) \* Likely to be increased by 3% from about the 1st of July under currently underway enterprise agreement negotiations.

Applications are invited for the above position at the Anglo-Australian Observatory. The AAO is one of the world's leading astronomical facilities. It operates two major optical telescopes located on Siding Spring Mountain near Coonabarabran and has facilities in Sydney where it builds astronomical instrumentation for both its own telescopes and others overseas.

The Observatory is currently building a robotic optical fibre positioner as part of a large new instrument facility for the Subaru Telescope in Hawaii. Part of this project is the production of software to process the data produced by this instrument, to be based on a similar existing software package. The observatory is seeking a software engineer or Astronomical data analysis programmer who can take this complex existing software and adapt it to the requirements of the new instrument facility.

The appointment is for a one-year term, in Sydney. Overseas travel will be required during the commissioning phase of the project

In order to apply you need to obtain the employment information package and follow its guidelines. You can get the package by phoning Greta Simms on +612 9372 4863 or by downloading it from the World Wide Web, <http://www.aao.gov.au/local/www/jobs/> .

For more information on this position, please contact Tony Farrell on +612 9372 4826.

Applications close on Thursday 30 June 2005.

The Anglo-Australian Observatory is an Equal Opportunity Employer!

**No. 21801**

**Extragalactic Surveys with LOFAR**

**LEIDEN OBSERVATORY**

**P.O. Box 9513**

**The Netherlands**

**Tel: 31-71-5275851**

**FAX: 31-71-5275819**

**URL1: [http://www.lofar.org/p/astronomy\\_hp.htm](http://www.lofar.org/p/astronomy_hp.htm)**

**URL2: <http://www.strw.leidenuniv.nl/jobs/>**

**URL3:**

**Email Submission Address: [rottgeri@strw.leidenuniv.nl](mailto:rottgeri@strw.leidenuniv.nl)**

**Email Inquiries: [rottgeri@strw.leidenuniv.nl](mailto:rottgeri@strw.leidenuniv.nl)**

***Attention: H.J.A. Rottgering, Dr.***

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Extragalactic Surveys with LOFAR

Post-Doctoral positions for the scientific preparation and exploitation of the LOFAR low

frequency radio telescope.

LOFAR, the Low Frequency Array, is a revolutionary new radio telescope being constructed in the Netherlands that will explore the radio band from 10-240 MHz to an unprecedented depth. First operations are planned for 2007. See [www.lofar.org](http://www.lofar.org) for further details.

LOFAR will carry out a number of extremely sensitive surveys of the low frequency sky which will be used to study the formation and evolution of distant radio galaxies and quasars, starburst galaxies, and diffuse radio emission from clusters of galaxies. Postdoctoral positions are available at Leiden Observatory for researchers to play a major role in commissioning and optimising LOFAR for extragalactic surveys. Successful candidates will further be expected to carry out their own research programmes in areas relevant to LOFAR science. We seek enthusiastic and excellent young researchers with experience in radio astronomy to strengthen the Leiden LOFAR team.

The "Sterrewacht" is the oldest university department of astronomy in the world with excellent research facilities. Leiden is a charming university town, within easy reach of the major European centres. Further information can be obtained from

Huib Rottgering, Leiden Observatory, Sterrewacht, Postbus 9513, 2300 RA Leiden, The Netherlands

Applications together with a curriculum vitae and the names of 2 references should be sent to arrive before Aug 15, 2005 to:

LOFAR Science Office, c/o Dr. M.P. van Haarlem, ASTRON, P.O. Box 2, 7990 AA Dwingeloo, The Netherlands, email: [haarlem@astron.nl](mailto:haarlem@astron.nl)

Street address: Oude Hoogeveensedijk 4, 7991 PD Dwingeloo, The Netherlands, FAX: +31 521 597 332

**No. 21802**

**Postdoctoral Fellowships and PhD Stipends in Cosmology**

**UNIVERSITY OF COPENHAGEN**

**Dark Cosmology Center, Niels Bohr Institute**

**Juliane Maries Vej 30**

**Denmark**

**Tel: +45 3532 5928**

**FAX: +45 3532 5989**

**URL1: <http://www.astro.ku.dk/dark>**

**Email Submission Address: [darkjobs@astro.ku.dk](mailto:darkjobs@astro.ku.dk)**

**Email Inquiries: [jens@astro.ku.dk](mailto:jens@astro.ku.dk)**

***Attention: Jens Hjorth, Professor***

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The new Dark Cosmology Center ( <http://www.astro.ku.dk/dark> ) at the Niels Bohr Institute has several vacant postdoc positions and PhD stipends related to exploring the nature of dark energy and dark matter, the end of the dark ages, and the properties of cosmic dust. The key staff of the center include Jens Hjorth (head), Anja C. Andersen, Johan P. U. Fynbo, Kristian

Pedersen, and Jesper Sollerman. We are especially interested in candidates with an observational or theoretical expertise in supernova/gamma-ray burst cosmology, dark matter and dark energy, and/or cosmic dust. We encourage any candidates interested in making the center a success to apply, irrespective of gender, background, or seniority.

The postdoctoral fellowships are for 2 years with the possibility of extension. A PhD degree and relevant research experience are required. The annual salary will be about 46,000 Euro + a 17 % contribution to a pension scheme. The PhD stipends are for 3 years. Please send CV, research plan (1-3 pages), and the names and coordinates of three referees to [darkjobs@astro.ku.dk](mailto:darkjobs@astro.ku.dk).

Applications will be considered until at least August 1 but we encourage interested candidates to apply as soon as possible.

**No. 21803**

**Postdoctoral Research Fellowship in Solar Astrophysics**

**UNIVERSITY OF CENTRAL LANCASHIRE**

**Corporation Street**

**Preston, Lancashire PR1 2HE**

**United Kingdom**

**Tel: +44 1772 892324**

**URL1: <http://www.uclan.ac.uk/other/hr/jobs/external.htm>**

**(Jobs @ UCLan)**

**URL2: <http://www.uclan.ac.uk/astronomy>**

**(Departmental Homepage)**

**Email Submission Address: [humanresources@uclan.ac.uk](mailto:humanresources@uclan.ac.uk)**

**Email Inquiries: [rwwalsh@uclan.ac.uk](mailto:rwwalsh@uclan.ac.uk)**

***Attention: Human Resources***

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PPARC PDRF in Solar Physics (Three year limited term) Ref: 196A-29-04 Centre for Astrophysics University of Central Lancashire Starting salary in range £21,640-£22,507

Applications are invited for a Particle Physics and Astronomy Research Council funded Postdoctoral Fellowship post to undertake research in Solar Physics. Working with Dr Robert Walsh, this is a three-year, full-time position.

The project involves collaborative and individual research in the area of Solar Physics with particular emphasis on coronal physics and the coronal heating problem – specifically, the numerical simulation of multiple plasma strand heating events and the production and analysis of observables for current and future space-based instrumentation.

Candidates should have at least three years' experience in Solar Physics (at PhD level of above), and should hold a BSc and a PhD (awarded or imminent) in an appropriate subject. Experience in numerical modelling (MHD or HD) and in related software (IDL, Solarsoft) is essential. Also a familiarity with the reduction of multi-instrument, multi-wavelength solar astronomical data (from SOHO and TRACE) is desirable.

Appointment will be on the RF scale, with starting salary likely to be in the range 21,640 –

22,507 UK Pounds.

For further information and informal enquires, contact Dr Robert Walsh: rwwalsh@uclan.ac.uk; phone +44 (0)1772 893557; fax +44 (0)1772 892996.

For general information on the University visit [www.uclan.ac.uk](http://www.uclan.ac.uk) .

The Department is located on the University's main campus, on a pleasant site near the centre of Preston, England's newest city. Immediately outside the town is the Forest of Bowland Area of Outstanding Natural Beauty; whilst the Lake District, Peak District and the Yorkshire Dales are each only an hour away. Preston has excellent communications by rail and motorway with the rest of the country; London, Edinburgh and Glasgow are all less than three hours away by direct train. Preston has excellent parks and green spaces for outdoor activities, a plethora of pubs and clubs and a vibrant city centre only a few minutes walk from the University. There are abundant cultural events, both in Preston itself, and in nearby Manchester.

The Centre for Astrophysics' research areas include: solar physics, solar-terrestrial physics, stellar and galactic astrophysics, extragalactic astronomy and observational cosmology. Staff at the Centre are part of the UK Southern African Large Telescope Consortium. This not only provides access to a world-class 10-m telescope, but also to smaller facilities at SAAO.

Commencing date for the post is negotiable but would be no later than 1 October 2005.

Closing date for this post is 8 July 2005.

**No. 21804**

**Readership in Astronomy**

**INSTITUTE OF ASTRONOMY, UNIVERSITY OF CAMBRIDGE**

**Madingley Road**

**UK**

**Tel: +44 1223 337516**

**FAX: +44 1223 339910**

**URL1: <http://www.ast.cam.ac.uk>**

**(Institute of Astronomy)**

**URL2: <http://www.admin.cam.ac.uk/offices/personnel/forms/pd18>**

**(PD18 Application form)**

**Email Submission Address: [di@ast.cam.ac.uk](mailto:di@ast.cam.ac.uk)**

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

**Attention: Mrs Di Sword**

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Applications are invited for a Readership in Astronomy available at the Institute of Astronomy from 1 October 2005 or as soon as possible thereafter. Candidates will need to demonstrate an internationally recognised academic reputation for excellence in research. The Institute is seeking to strengthen further its research in observational astronomy following the appointment of Professor Robert Kennicutt to the Plumian Professorship. Preference may therefore be given to observational astronomers, but candidates in any field of astronomy relevant to the research interests of the Institute are encouraged to apply. The successful candidate will be expected to contribute to the Institute's teaching programme.

Readerships are tenured positions. The pensionable stipend for a Readership is £45,885pa. Further details are available at: [www.ast.cam.ac.uk/vacancies](http://www.ast.cam.ac.uk/vacancies). Applications including a completed application form (PD18), a cv, a list of publications, a statement of research plans and the names and contact details of three referees, should reach Mrs Di Sword, Institute of Astronomy, Madingley Road, Cambridge, CB3 0HA, ([di@ast.cam.ac.uk](mailto:di@ast.cam.ac.uk)) by 1st July 2005.

**No. 21805****Theoretical or Computational Astrophysics****UNIVERSITY OF CENTRAL LANCASHIRE****Preston, Lancashire PR1 2HE****United Kingdom****Tel: +44 1772 892324****FAX: +44 1772 892933****URL1: <http://www.uclan.ac.uk/>****(University of Central Lancashire)****URL2: <http://www.uclan.ac.uk/cfa>****(CFA Website)****URL3:****Email Submission Address: [HumanResources@uclan.ac.uk](mailto:HumanResources@uclan.ac.uk)****Email Inquiries: [gebromage@uclan.ac.uk](mailto:gebromage@uclan.ac.uk)*****Attention: Human Resources/229A-13-05***

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The Centre for Astrophysics seeks to fill the newly-created Chair in "Theoretical or Computational Astrophysics" with a person of outstanding international research reputation in the areas of solar physics, astrophysical modelling or computational astrophysics. The Professor will provide academic leadership in research and teaching, pro-actively supporting postgraduate and undergraduate developments. Success in winning funding and publication in high-impact journals are also essential.

The CFA is located on the University's main campus, a pleasant site near the centre of Preston,. Immediately outside the city is the Forest of Bowland Area of Outstanding Natural Beauty; whilst the Lake District, Peak District and the Yorkshire Dales are each only an hour away. Preston has excellent communications with the rest of the country; London and Edinburgh are less than three hours away by direct train. There are abundant cultural events in Preston and nearby Manchester.

The CFA research areas include: solar physics, solar-terrestrial physics, stellar and galactic astrophysics, extragalactic astronomy and observational cosmology. The CFA is part of the UK Southern African Large Telescope Consortium, currently lead by Professor Gordon Bromage, Head of Centre. This provides access to a world-class 10-m telescope, and smaller facilities at SAAO. The Solar Physics group are involved in Solar-B and Solar Orbiter. The University has recently acquired an SGI Altix 28-node parallel-processing computer. In addition CFA staff are eligible to apply for time on the UK's world-leading suite of astronomy observational and computational national facilities.

Application details are available from: <http://www.uclan.ac.uk/astronomy/jobs/229A-13-05> - quote reference number 229A-13-05.

**No. 21806****Postdoctoral Fellowship in Radio and X-ray Study of Active Galactic Nuclei****SMITHSONIAN ASTROPHYSICAL OBSERVATORY****Center for Astrophysics****60 Garden St, Mail Stop 42****Cambridge, MA 02138****United States****Tel: (617) 495-7194****FAX: (617) 495-7345****Email Submission Address: [greenhill@cfa.harvard.edu](mailto:greenhill@cfa.harvard.edu)****Email Inquiries: [greenhill@cfa.harvard.edu](mailto:greenhill@cfa.harvard.edu)*****Attention: Lincoln Greenhill***

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Applications are invited for a postdoctoral fellowship at the Smithsonian Astrophysical Observatory (SAO) involving observational studies of active galactic nuclei (AGN). The fellow will work chiefly on programs that combine XMM and Chandra studies of type-2 AGN and VLBI studies of water megamasers in accretion disks. Other related investigations of AGN will be encouraged depending on the experience and initiative of the appointee. Many opportunities will exist for interaction with scientists in the sizable radio and high-energy divisions of SAO, and for use of SAO instruments such as the Submillimeter Array.

Candidates must possess a PhD in astrophysics or a related field and must be familiar with AGN physics. Experience with common analysis software packages for radio interferometers or current X-ray missions is essential, and experience in the reduction of VLBI data specifically will be viewed especially favorably. Working knowledge of UNIX/LINUX, FORTRAN/C is necessary. The position will be offered for one year, renewable for at least a second, contingent on performance and availability of funds. The stipend is \$48,000 with health insurance. The start date can be as early as September 1, 2005, but later starts may be arranged.

Further information can be obtained via email from Dr. Lincoln Greenhill ([greenhill@cfa.harvard.edu](mailto:greenhill@cfa.harvard.edu)). Candidates should submit via email a CV, bibliography, preferred start date, and statement of research accomplishments and interests. Three letters of recommendation should be sent to Dr. Greenhill at the address above. Review of applications will begin August 1 and continue until the position is filled. AAE/EOE

**No. 21808****Data Mining Applications Scientist****UNIVERSITY OF EDINBURGH****Tel:****URL1: <http://www.roe.ac.uk/ifa/>*****(Institute for Astronomy)*****URL2: <http://www.ed.ac.uk>*****(University of Edinburgh)*****URL3: <http://www.jobs.ed.ac.uk>*****(Further particulars and applications)*****Email Inquiries: [rgm@roe.ac.uk](mailto:rgm@roe.ac.uk)**

**Attention: Mrs Liz Gibson**

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The University of Edinburgh seeks an astronomer with research experience in the analysis of large sky survey datasets and a proven aptitude for software development to join the team in the Wide Field Astronomy Unit (WFAU) of the Institute for Astronomy developing and curating the Science Archives for the WFCAM and VISTA sky survey instruments.

You will be responsible for the development of tools enabling users to perform efficient statistical analyses of the multi-TByte Science Archives curated by WFAU and will investigate the hardware provision required to support a Science Archive data analysis service within the context of the developing global Virtual Observatory. You will be encouraged to use personal research interests as motivation for tool development, but must also capture requirements from the survey consortia to reflect the wider science drivers behind the survey programmes.

Candidates must possess a PhD in astronomy or a related field, and should have an ongoing programme of research centred on the statistical analysis of large sky survey datasets. Experience with relational databases would be an advantage, as would knowledge of data structures and algorithms used in data mining.

The WFAU software development team work in a variety of languages (Python, Java, Perl, C/C++ and SQL) and use collaborative tools such as CVS. Experience of working in such a team is desirable, as is previous exposure to the standards being developed within the international Virtual Observatory community.

The post is available as soon as possible and initial appointment will be for three years, with the possibility of extension subject to funding. Appointment will be on the Research Associate AR1A scale, £ 19,460 - 27,989 p.a. depending on qualifications and experience. For further details and application procedure please see the web site: <http://www.jobs.ed.ac.uk> (vacancy reference 3004500). Please apply on-line via this site. Candidates are encouraged to contact Dr Bob Mann ([rgm@roe.ac.uk](mailto:rgm@roe.ac.uk)) for informal enquiries about this post.

**No. 21809****Postdoctoral Opportunity/ Planetary Formation and Dynamics****UNIVERSITY OF COLORADO AT BOULDER****University of Colorado at Boulder****392 UCB****Boulder, CO 80309-0392****USA****Tel: 303-492-0260****FAX: 303-492-6946****URL1: <http://lasp.colorado.edu>****Email Submission Address: [ohtsuki@lasp.colorado.edu](mailto:ohtsuki@lasp.colorado.edu)****Email Inquiries: [ohtsuki@lasp.colorado.edu](mailto:ohtsuki@lasp.colorado.edu)****Attention: Dr. Keiji Ohtsuki, Research Associate**

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Postdoctoral Opportunity/ Planetary Formation and Dynamics

The Laboratory for Atmospheric and Space Physics (LASP) of the University of Colorado at Boulder invites applications for a postdoctoral position for one year with the possibility of extension up to three years, contingent on performance and availability of research funds. The position is available immediately, although the start date is flexible. The successful applicant will work primarily with Dr. Keiji Ohtsuki on theoretical studies on the formation and dynamical evolution of planets, asteroids, and/or ring-satellite systems, and also will be encouraged to participate in writing proposals to obtain independent research funds. For more information about LASP, please visit <http://lasp.colorado.edu>. A Ph.D. in planetary sciences or related field is required. Applicants should send Curriculum Vitae, publication list, summary of research interests, and the names and addresses of three references to: Dr. Keiji Ohtsuki, LASP, 392 UCB, University of Colorado, Boulder, CO 80309-0392. For full consideration, applications should be received by June 30, 2005. The University of Colorado at Boulder is committed to diversity and equality in education and employment.

**No. 21810****Postdoctoral Fellows in Radio Astronomy****UNIVERSITY OF NEW MEXICO****MSC07 4220****800 Yale Blvd. NE****Albuquerque, New Mexico 87131****USA****Tel: 505.277.2616****FAX: 505.277-1520****URL1: <http://panda.unm.edu/>****(Physics and Astronomy)****URL2: <http://www.unm.edu/>****(University of New Mexico)****Email Submission Address: [gbtaylor@unm.edu](mailto:gbtaylor@unm.edu)****Email Inquiries: [gbtaylor@unm.edu](mailto:gbtaylor@unm.edu)*****Attention: Dr. Greg Taylor, Re: Postdoctoral Fellowship***

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We invite applications for two postdoctoral fellows in radio astronomy at the University of New Mexico in Albuquerque, to begin in September of 2005. Our group has strong interests in the exploration through radio interferometry of Normal Galaxies, Active Galaxies, Starburst Galaxies, the Interstellar Medium, the Intracluster Medium, Gamma-Ray Bursts and other transient phenomena. We are also interested in developing new algorithms for long-wave interferometry, addressing such challenges as wide-field imaging, multi-frequency synthesis, field-dependent calibration, etc. In addition to using nearby facilities such as the VLA and VLBA, we are leading the effort to design and develop the Long Wavelength Array (LWA), to be centered in New Mexico. The successful candidates will work on some of the above topics as well as their own research interests, and could be involved in a modest amount of LWA development according to their interests. Thorough practical knowledge of radio interferometry techniques is highly desirable. Candidates must have completed the Ph.D. at the time of hire. Applications should be received by July 15, 2005 or until both positions are filled, and should include a curriculum vitae, a description of research interests and accomplishments, and a list of publications. Candidates should also have at least three letters of reference sent directly to Dr. Greg Taylor( [gbtaylor@unm.edu](mailto:gbtaylor@unm.edu) <mailto:gbtaylor@unm.edu> , Department of Physics and Astronomy, MSC 07 4220, 800 Yale Blvd NE, 1 University of New Mexico, Albuquerque, NM

87131-0001. The University of New Mexico is an Equal Opportunity Employer.

**No. 21811**

**TMT Scientific Instrument Manager**

**ASSOCIATION OF CANADIAN UNIVERSITIES FOR RESEARCH IN ASTRONOMY**

**6328 Memorial Rd**

**The University of British Columbia**

**Vancouver, British Columbia V6T 1Z2**

**Canada**

**Tel:**

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

**URL2: <http://http://www.artsandscience.utoronto.ca/acura/index.html>**

**Email Inquiries: [carlberg@astro.utoronto.ca](mailto:carlberg@astro.utoronto.ca)**

***Attention: Ray Carlberg, Canadian Project Director***

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**TMT Scientific Instrument Manager**

The TMT project seeks a scientific instrument manager (SIM) to work in Victoria as part of the joint ACURA-NRC Large Optical Telescope project. The position requires a PhD in astronomy or closely related area, with extensive experience in observational optical/IR astronomy. Expertise in instrumentation and in management of instrumentation projects is desirable. The SIM will work in the TMT Science Instrument office that is being established in Victoria, directed by David Crampton. The work will entail participation and leadership in the TMT instrumentation procurement process, requiring scientific and technical evaluation of the progress of instrumentation studies underway at various institutions in North America, as well as administrative oversight for several of these studies. The work will also entail assisting in the development of the overall TMT instrumentation effort and in establishing interfaces and requirements for the observatory and telescope subsystems.

Conceptual design studies for TMT instruments are currently planned for the duration of the TMT "detailed design phase" (until late 2007). The position will initially be for two years, with reappointment possible. Travel to TMT partner institutions and instrument vendor locations will be required. Salary will be commensurate with experience.

Applications should be emailed to the Canadian Project Director, Ray Carlberg at [carlberg@astro.utoronto.ca](mailto:carlberg@astro.utoronto.ca). Applications should include a cover letter with a statement of interests, a current CV, and the names and contact information of three references. Please send applications prior to June 30, 2005.

**No. 21813**

**Radio Astronomer**

**NAVAL RESEARCH LABORATORY**

**4555 Overlook Ave., SW**

**Building 2/Room 277**

**Washington, DC 20375**

**USA**

**Tel: 202-767-0668**

**FAX: 202-404-8894**

**Email Submission Address:** [namir.kassim@nrl.navy.mil](mailto:namir.kassim@nrl.navy.mil)

**Email Inquiries:** [namir.kassim@nrl.navy.mil](mailto:namir.kassim@nrl.navy.mil)

**Attention: Dr. Namir Kassim, Research Physicist**

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The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with experience in radio astronomy. The successful candidate will be expected to carry out innovative research programs using existing or planned low-frequency radio observations (e.g., with VLA, VLBA, Arecibo, GMRT, GBT). We seek candidates who would like to join an existing collaboration between NRL and Sweet Briar College to monitor for transient radio emission (e.g., the bursting transient GCRT J1745-3009) from Galactic and extragalactic sources.

NRL radio astronomers carry out a wide range of observational programs at the VLA, VLBA, and Arecibo Observatory, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today. With it, NRL scientists are beginning a sky survey of the northern hemisphere, the VLA Low-Frequency Sky Survey (VLSS). Inspired by the capabilities of the 74 MHz system, the Remote Sensing Division is overseeing the construction of the first elements in the Long Wavelength Array (LWA). When finished the LWA will provide wide-field imaging capabilities in the frequency range 20--80 MHz. The successful candidate will be expected to/have the opportunity to utilize these first elements for a variety of observations, including novel searches for radio transients.

Observational programs, such as a 74 MHz sky survey or ongoing 74 and 330 MHz Galactic center observations, including the transient monitoring program, are pursued both for their intrinsic astronomical interest as well as to help guide LWA calibration and imaging strategy and array configuration design. LWA will open a new window on the spectrum, with scientific applications in virtually all areas of astrophysics.

The opportunity exists for the successful candidate to involve Sweet Briar College (SBC) students in his or her research, and to present a series of guest lectures during SBC astronomy courses. SBC is a liberal arts college for women located near the Blue Ridge Mountains in central Virginia, less than hour from UVA and NRAO-Charlottesville, 3 hours from NRAO-Green Bank, and 3 hours from NRL in Washington DC.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years, with a third year extension for satisfactory accomplishments in the second year. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Deadlines for submission to the NRC are 1 August 2005, 1 February 2006, and 1 May 2006. The current award stipend is \$60,120.00 per year. US citizenship or legal permanent residency is required. Online applications can be submitted at <http://www.national-academies.org/rap>. For further information contact Dr. Namir Kassim at the above address. EOE/AAE.

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