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▶ 2 Attachments, 244 KB

The Hispanic Physicist

A news service of the National Society of Hispanic Physicists
Please send news, congratulations, etc. to Dr. Jorge A. Lopez, jorgelopez@utep.edu
or upload job opportunities in our web site: <http://www.hispanicphysicists.org>

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1. 2011 Joint Annual Conference of the National Society of Black Physicists and the National Society of Hispanic Physicists

The Conference Executive Committee has decided to hold the 2011 Joint Annual Conference in September, 2011. The earlier goal of holding the Conference in April was found to not allow sufficient lead time to bring everything together. The present time schedule is to have a second round of bids from hotels in by January 15, and hold site visits and decide on dates and a location by January 31. Please stay tuned.

The Conference Executive Committee

2. Faculty Positions, Department of Physics, Rochester Institute of Technology

The Department of Physics at the Rochester Institute of Technology invites applications for two or more

tenure-track faculty positions to begin August 2011. The positions are expected to be at the rank of assistant professor, however, candidates with experience and qualifications consistent with appointment at a higher rank are also invited to apply. Candidates must have a Ph.D. in physics or a closely related field, demonstrate a commitment to teaching excellence, and possess an ability to establish and maintain a research program in one of the following areas: Optical physics, nanoscale materials physics, or soft-matter biological physics. Applicants must also have post-doctoral experience, exhibit a commitment to the educational mission of the Physics Department, including curricular development, be capable of including undergraduate students in their research program, exhibit strong communication skills, and be legally eligible to work in the United States beginning August 2011. Preference will be given to candidates familiar with current trends in undergraduate physics education and who demonstrate an ability to teach upper level undergraduate physics laboratories.

The Rochester Institute of Technology is a privately endowed, coeducational university with an enrollment of approximately 16,000 students. The Institute's strategic plan requires all undergraduate students to engage in some form of experiential learning, such as research. The Department of Physics consists of 33 faculty, 6 postdocs and 125 majors. The Department offers a BS degree in physics and supports the MS program in Materials Science & Engineering and the PhD programs in Astrophysical Sciences and Technology, Microsystems Engineering, and Imaging Science. Approximately 1300 students/quarter are taught introductory physics in an activity-based format.

Applications should be submitted online at <http://careers.rit.edu/> (search for IRC42374). Submit all application materials as one PDF file that includes a cover letter, curriculum vita, description of research goals, teaching statement, and a list of three current professional references. Candidates should also arrange to have the three references send letters of support directly to Chair, Faculty Search Committee, Department of Physics, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603. To receive full consideration, all application materials should be received by December 15, 2010. Descriptions of the RIT Department of Physics can be found at <http://www.rit.edu/cos/physics/>. Email inquiries regarding the position should be sent to pacsps@rit.edu.

The Rochester Institute of Technology is an equal opportunity/affirmative action employer. Members of protected classes and individuals with the ability to contribute in meaningful ways to the university's continuing commitment to cultural diversity, pluralism, and individual differences are encouraged to apply.

3. Faculty member, Experimental Nuclear Physics, Texas A&M University.
*** See attachment ***

4. Endowed Professorship, Imaging Science, Rochester Institute of Technology

Starting Date: Late August, 2011

Endowed Professorship in RIT's Chester F. Carlson Center for Imaging Science

DESCRIPTION: There is a faculty opening as a senior tenure-track/tenured endowed professorship in the Chester F. Carlson Center for Imaging Science (CIS) in the area of biomedical imaging. Over the next 5 years, RIT is committed to major growth and investment in research and education in the interdisciplinary arena of applied biological science, encompassing biomedical engineering, biological

and medical imaging, biophysics, biomedical computation, and biotechnology.

Applicants in any related application area or modality are of interest. Current related research efforts in CIS focus on magnetic resonance and ultrasound imaging, visual perception, and cognitive science. The Greater Rochester, New York Region is home to more than 70 biotech companies, with a concentration in vision science and medical imaging.

The CIS biomedical faculty has long-standing collaborative relationships with the University of Rochester Medical Center and the SUNY Upstate Medical Center. RIT and Rochester General Health System (RGHS) have a partnership in educational and research programs that includes sharing of expertise and facilities. RIT has formed the Institute of Health Sciences and Technology that will commence operations next fall and will house joint RIT-RGHS research and educational programs. The person recruited for this position will take a prominent role in the growth of the CIS program in biomedical imaging, working collaboratively with the other faculty and labs, as well as in the generation of externally funded research projects, supervision of graduate research, laboratory expansion, and the development and teaching of related courses.

QUALIFICATIONS: The following are required for the position: Doctoral degree, a substantial peer-reviewed publication record, and a history of successful research leadership in biomedical imaging or related fields at the level of PI demonstrated through externally funded projects; experience in the development of theory or methods for biomedical imaging, including acquisition, processing, and application; ability to teach and interest in teaching at the undergraduate and graduate level, including supervision of students and development of curricula. The ability to communicate well in speech and writing and synergy with existing research areas to promote collaboration are highly desirable.

Each CIS faculty member is expected to collegially contribute to the growth of the imaging science program through appropriate service activities in community outreach, industrial interaction and academic governance. An ability and interest in contributing to a community committed to diversity is desired.

THE CENTER: The Chester F. Carlson Center for Imaging Science, located in the College of Science, is a highly interdisciplinary university research and education center dedicated to pushing the frontiers of imaging in all its forms and uses. Major research thrusts within the Center include Biomedical Imaging, Remote Sensing, Astronomy, Color Science, Sensor Development, and Vision. CIS offers B.S., M.S. and Ph.D. degrees in Imaging Science with an emphasis on the physics of image formation, the mathematics and systems engineering of image processing, analysis and information extraction, and the development of sensor systems and imaging instrumentation. CIS also offers M.S. and Ph.D. degree in Color Science, which is a broadly multidisciplinary program with courses and research that span topics such as visual perception, psychophysics, color modeling of material and imaging systems. Jointly with the Departments of Physics and School of Mathematics, CIS offers the PhD in Astrophysical Sciences and Technology. The faculty collaborates with the Center for Microsystems Engineering in the College of Engineering. The biomedical faculty includes cross-disciplinary expertise in chemistry, electrical engineering, physics, and imaging.

APPLICATION PROCEDURE: Apply online at <http://careers.rit.edu/>. KEYWORD Search: IRC43820.

Upload via this website application material as one PDF file that includes your cover letter; a summary of education and professional background; list of publications and research grants; summary of teaching and research experience; a list of three professional references and a brief personal statement on expected future research and teaching activities. A statement of your experience with and interest in cultural diversity should also be included. Materials should be addressed to Search Committee Chair, Center for Imaging Science.

You can contact the search committee with questions on the position at: biofacultysearch@cis.rit.edu. Candidates should visit www.cis.rit.edu for more information and to view the detailed job postings. Applications will be reviewed on a rolling basis and the position will remain open until filled. The Rochester Institute of Technology is an equal opportunity/affirmative action employer. Members of protected classes and individuals with the ability to contribute in meaningful ways to the university's continuing commitment to cultural diversity, pluralism, and individual differences are encouraged to apply.

5. Request for news for APS' Forum on International Physics newsletter

The deadline for receipt of contributions for the next issue is February 1, 2011.

Also welcome are suggestions on possible contributions--topic, author, contact information, "newsy" items of 500 - 1000 words in length are preferred but article length is certainly negotiable! Feel free to contact -- malamud@foothill.net or 530-470-8303. I also like to incorporate photographs and other graphic items. Preferred formats are MSword and JPG for illustrations.

Thanks.

Ernie Malamud. FIP Editor.

6. Sergio Ulloa elected as Vice Chair of APS' FIP

NSHP's Sergio Ulloa (Ohio U.) has been elected Vice Chair of APS' FORUM ON INTERNATIONAL PHYSICS, his terms start January 1, 2011 and will serve Vice Chair, Chair, and Past-Chair.

Congratulations Sergio!

7. Postdoctoral Research Positions, LIGO Laboratory, California Institute of Technology (Caltech), Massachusetts Institute of Technology (MIT)

The Laser Interferometer Gravitational-Wave Observatory (LIGO) has as its goal the development of gravitational wave astronomy. The LIGO Laboratory is managed by Caltech and MIT, and is sponsored by the National Science Foundation. It operates observatory sites equipped with laser interferometric detectors at Hanford, Washington and Livingston, Louisiana. The initial detectors have achieved design sensitivity and a data set spanning more than a year of coincidence operation has been collected. Analysis is ongoing, with extensive participation by the LIGO Scientific Collaboration (LSC). Further observation is now underway, with incrementally improved instruments. A major upgrade (Advanced LIGO) is underway in parallel. In addition, a vigorous R&D program supports the development of enhancements to the detectors as well as future capabilities.

The LIGO Laboratory may have several postdoctoral research positions at Caltech, MIT and at the two LIGO observatory sites. Successful applicants will be involved in the operation of LIGO itself, analysis

of data, both for diagnostic purposes and astrophysics searches, as well as the R&D program for future detector improvements. Expertise related to astrophysics, modeling, data analysis, electronics, laser optics, vibration isolation and control systems is desirable. Most importantly, candidates should be broadly trained physicists, willing to learn new experimental and analytical techniques, and ready to share in the excitement of building, operating and observing with a gravitational-wave observatory. Appointments at the post-doctoral level will initially be for one-year with the possibility of renewal for up to two subsequent years.

Applications for post-doctoral research positions with LIGO Laboratory should indicate which LIGO site (Caltech, MIT, Hanford, or Livingston) is preferred by the applicant. Applications should be sent to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred).

Applications should include curriculum vitae, list of publications (with referred articles noted), and the names, addresses, email addresses and telephone numbers of three or more references. Applicants should request that three or more letters of recommendations be sent directly to HR@ligo.caltech.edu (Electronic Portable Document Format (PDF) submittals are preferred. Consideration of applications will begin December 1, 2010 and will continue until all positions have been filled.

8. Wayne State University, Theoretical particle physics

The Department of Physics and Astronomy at Wayne State University seeks applications for a tenure-track assistant professor position in theoretical high-energy particle physics. The appointment starts August 2011. We are looking for candidates with a strong background in theoretical high-energy particle physics, and a high level of achievement in particle physics phenomenology, who will play a leadership role in the LHC era and beyond.

The successful candidate will maintain an active, externally funded research program and have a commitment to teaching at both undergraduate and graduate levels. A Ph.D. degree or equivalent is required and postdoctoral experience is considered important. The position will include a competitive start-up package.

The Department (<http://www.clas.wayne.edu/physics/>) presently consists of almost 30 faculty members with active research programs in astrophysics (SDSS and LSST), high-energy particle physics (CDF, CMS, Belle and theory), relativistic heavy ion physics (STAR, ALICE and theory), condensed matter and materials physics, biophysics, and atomic physics.

Applicants should submit a cover letter, curriculum vitae, and statements of research and teaching interests, assembled as a single-file PDF format attachment, to hep-theory-search@physics.wayne.edu (preferred) or by regular mail to: Alexey A Petrov, Chair, Theoretical Particle Physics Search Committee, Department of Physics and Astronomy, Wayne State University, Detroit, MI 48201.

Applicants should also arrange to have at least three letters of reference, addressing both research and teaching potential, sent as pdf attachments to above e-mail address or regular mail address. Informal inquiries are welcome and should be sent to Prof. Alexey A Petrov at apetrov@wayne.edu. Review of applications will begin December 15th, 2010.

Wayne State University is an equal opportunity/affirmative action employer. Women and minority candidates are encouraged to apply.

9. Experimental Physics, Richard Stockton College of New Jersey

The Richard Stockton College of New Jersey is an innovative liberal arts and sciences college and is currently ranked among the top ten public Master's institutions in the northeast. The college is located in southern New Jersey on 1600 acres of the New Jersey Pinelands Preserve about one hour from Philadelphia, two hours from New York City, three hours from the Baltimore/Washington area, and 20 minutes from Atlantic City. The College has a diverse array of undergraduate programs and the School of Natural Sciences and Mathematics has recently implemented master's programs. Stockton provides opportunities for interdisciplinary academic, scholarly, and pedagogic development in the sciences and mathematics. We are seeking an outstanding teacher and experimental physicist with a strong dedication to teaching and scholarship in a liberal arts environment to join us as of September 1, 2011. An interest or background in the Aviation Sciences would be a plus. Opportunities for scholarly activity could include collaborations at the William J. Hughes Technical Center of the Federal Aviation Administration and the Aviation and Technology Research Park located 5 miles from campus. Academic experience with culturally diverse populations is desired.

Teaching load is normally 12 hours/semester, with most courses carrying 4 - 6 hours of teaching credit. Primary teaching responsibilities will include the teaching of introductory and advanced level physics courses and accompanying laboratories, developing courses in the candidate's area of expertise, as well as participation in the College's General Studies offerings.

The successful candidate will also be encouraged to develop a research program supported by external grants and fostering faculty-mentored student collaboration. The College provides several competitive internal grant programs to provide project initiation.

Excellence in teaching and extensive experience as a hands-on experimentalist is desirable. Ph.D. in physics by Sept. 1, 2011 is required and post-doctoral experience would be a plus. Salary is commensurate with experience and qualifications.

Send a letter of application, a resume, brief statements about your teaching and learning philosophy, and your research interests, and have three letters of recommendation sent to: Dean Dennis Weiss, School of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey, AA 258, P.O. Box 195, Pomona, NJ 08240 or namsdean@stockton.edu. Screening will begin in mid-January and continue until the position is filled. The College is an equal opportunity institution encouraging a diverse pool of applicants (See: www.stockton.edu/affirmative_action).

10. National Solar Observatory, Grad. Summer Research Study Astronomy - Astrophysics in India - Summer 2011

This International Research Experience for Students (IRES) program is administered by the National Solar Observatory (NSO), sponsored by the National Science Foundation's (NSF) Office of International Science and Engineering (OISE), and is open to US graduate students in any discipline of astronomy or astrophysics who are US citizens or permanent residents, age 21 years or older, and have a passport. The main goal of the program is to expose potential researchers to an international setting at an early stage in their careers. The program will take place in Bangalore, India, under the auspices of the Indian Institute

of Astrophysics (IIA), a premier national center devoted to research in astronomy, astrophysics and related physics. The program supports up to six summer research positions for 8 weeks starting June 13, 2011 (this start date is firm and does not include travel time). For each participant, the program will provide a stipend of US \$500 per week, round-trip air travel to/from India, accommodation, miscellaneous travel (field trips), incidental expenses, and medical expenses/insurance. Additional information and application materials are available on the Web at <http://eo.nso.edu/ires/>. All application materials must be received by February 4, 2011.

Experience

- Registered and in good academic standing in an Astronomy/Astrophysics graduate program in the US (applicants need not be majoring in Astronomy, although a demonstrated interest is essential)
 - Must be a US citizen or permanent resident
 - Age 21 or older
 - Have a passport that is valid through December 2011
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11. Astronomy Research for Undergraduates

The Department of Astronomy of Cornell University is pleased to announce that pending funding from the National Science Foundation, it will conduct its 2011 summer Research Experiences for Undergraduates (REU) program. The following web page contains more information and a link to the application form:

<http://astro.cornell.edu/specialprograms/reu/index.html>

Students will work directly with Cornell faculty and research staff on projects that cover a wide range of disciplines in radio, infrared and radar astronomy, and related theoretical topics. In addition to conducting individual research projects, students will also participate in group activities such as seminars. Selections will be announced after March 1, 2011.

Experience: United States citizens or permanent residents who have completed 1 to 3 years of undergraduate academic training by June 2011 are eligible.

12. Travel Fellowships for XXII UICL Congress, Madrid, Aug. 22-31, 2011

***** See attachment. *****

13. Faculty Positions – Physics Department, University of Massachusetts Lowell

The University of Massachusetts Lowell is a comprehensive university with a national reputation in science, engineering and technology, and committed to educating students for lifelong success in a diverse world and conducting research and outreach activities that sustain the economic, environmental and social health of the region. In February 2009, a campus-wide strategic planning initiative was launched to reposition UMass Lowell as a world-class institution over the next decade. A major component of that initiative is to ensure that diversity and inclusion are in every aspect of our strategic plan. We seek a diverse talented candidate pool to be part of our mission and achievements.

The Department of Physics invites applications for three tenure-track positions starting September 2011. An earned doctorate in physics or related field with a record of academic research and demonstrated ability in teaching undergraduate and graduate physics are required for the positions.

Material Science and Technology

We are seeking an individual with expertise in condensed matter (materials and devices) and research interests in the following areas: soft condensed matter physics, biomaterials, nanostructured materials and devices relating to renewable energy, sensors and optical devices. The appointment may be at the assistant, associate or full professor level depending on the qualification and experience.

Nuclear Physics

For the appointment in Experimental Nuclear Physics, the scope of the search is broad, with senior level appointments possible for a candidate with outstanding breadth and record. Current departmental research in accelerator-based nuclear spectroscopy, advanced detector development and digital signal processing is carried out in collaboration with national lab and industry partners. Interdisciplinary research with nuclear techniques is carried out with a 5.5-MV Van de Graaff accelerator and a 1-MW research reactor on campus.

Radiological Sciences

A position in Radiological Sciences/Health Physics is open at the associate professor level, but candidates at other levels also will be considered. The candidate will be expected to teach health physics, at the undergraduate and graduate levels, as well as conduct research in the areas of Radiological Sciences including, but not limited to, external dosimetry, internal dosimetry, radiation biology, computational methods for radiation transport, and medical health physics. The applicant must possess a Ph.D. degree in Radiological Health Physics, physics, or a closely related area. Certification by the American Board of Health Physics is desirable.

Successful candidates for the above positions are expected to initiate externally funded research with student participation, interact with some of the existing research groups and demonstrate a commitment to undergraduate and graduate teaching in the Physics Department.

How to apply: Interested applicants should apply online at <https://jobs.uml.edu>. Screening of applications will begin on March 28, 2011 and will continue until the position is filled. Women and members of minority groups underrepresented in academia are especially encouraged to apply.

Thank you for considering the University of Massachusetts Lowell as an employer of choice. We look forward to receiving your application.

The University of Massachusetts Lowell is committed to increasing diversity in its faculty, staff, and student populations, as well as curriculum and support programs, while promoting an inclusive environment. We seek candidates who can contribute to that goal and encourage you to apply and to identify your strengths in this area.

14. Tenure-Track Faculty Position in Physics, Western State College of Colorado

Western State College of Colorado invites applications for a tenure-track position in physics at the rank of assistant professor. Primary teaching responsibilities include lecture and laboratory courses in conceptual, introductory and calculus-based physics in support of degree programs in biology, chemistry, and geology. The program in physics also offers a minor curriculum with courses in mechanics, electricity and magnetism, modern physics, and electronics. Collaborative opportunities exist in

astronomy, chemical-physics, and geophysics.

The position requires teaching 24 semester credits per academic year. Responsibilities also include supervision of undergraduate research, academic advising, service to the college, and continued professional development.

SALARY/BENEFITS: Salary is commensurate with qualifications, \$48,000 - \$49,000. Benefits include an employee/employer shared contribution retirement plan and life and health insurance.

START DATE: August 2011

QUALIFICATIONS: A doctorate in physics or a related field is required. ABD will be considered for appointment, but the terminal degree is required for tenure. Candidates must possess a strong commitment to innovative undergraduate education and demonstrate excellence in teaching in both lecture and laboratory settings. A demonstrated commitment to undergraduate research is desirable.

APPLICATION: Send letter of application with curriculum vitae, transcripts, and statement of teaching philosophy, and have three letters of reference sent to:

Chair, Physics Search Committee
Department of Natural and Environmental Sciences
Hurst Hall 128
Western State College of Colorado
Gunnison, CO 81231

Please direct questions to Anne Ryter at aryter@western.edu; (970) 943-7098.

Unofficial transcripts are acceptable during screening. Official transcripts are required prior to employment. Screening of applications will begin January 10, 2011 and continue until the position is filled.

Western State College of Colorado is an affirmative action/equal opportunity educator and employer.

15. Summer Internship at Goddard Space Flight

The 2011 Lunar and Planetary Science Academy (LPSA) Summer Internship at Goddard Space Flight Center is now accepting student applications. The application website is: <https://academyapp.com/>

Please inform your students and other potential applicants. Note that the deadline for completing the online application is January 18, 2011 at 5 pm EST. More information about the internship is available at the LPSA website:

<http://science.gsfc.nasa.gov/690/LPSA/>

The 2010 LPSA field trip to the Racetrack Playa at Death Valley has made worldwide press. Here is the latest from the Discovery Channel on the "Sailing Stones":
<http://www.discoverychannel.ca/Article.aspx?aid=20093>

Dr. Cynthia Cheung
NASA/GSFC Code 695
Laboratory for Planetary Magnetospheres
Greenbelt, MD 20771

email: cynthia.y.cheung@nasa.gov voice: 301-286-2780, fax: 301-286-0212

16. Asst./Assoc./Full Professor in Exp. Condensed Matter Physics, Auburn U.

The Department of Physics at Auburn University is seeking an experimentalist for a tenure track/tenured faculty position at a rank of assistant, associate, or full professor in the area of wide band gap semiconductor materials/device physics. Applications to tenured professor level will be considered if the candidate has a demonstrated record of outstanding accomplishment and leadership. Applicants must have a Ph.D. or equivalent degree in physics or closely related field. At least 2 years of postdoctoral or industrial experience is a prerequisite. Applicants are expected to have a strong commitment to high quality teaching at the undergraduate and graduate level. The successful candidate will be expected to perform innovative research and attract extramural funding. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin and continue working legally for the proposed term of employment. In addition, excellent communication skills are required. Interested candidates should send application materials (as a single PDF document) including (1) a letter of interest (with the list of three references), (2) curriculum vitae, (3) teaching statement, and (4) research/funding plan *via* email attachment to chair of the experimental condensed matter physics faculty search committee, Prof. Minseo Park (park@physics.auburn.edu). Review of applications will begin February 1st, 2011, and will continue until the position is filled. The desired starting date is August 15th, 2011.

Auburn University is an affirmative action, equal opportunity employer. Minorities and women are encouraged to apply.

17. Faculty Position, Exp. Plasma Physics in Fusion Science, Auburn University

The Department of Physics at Auburn University is seeking a qualified individual for a tenure-track faculty position in experimental fusion science.

Preference is for an advanced (i.e., Associate or Full Professor) level candidate, but all ranks may be considered. Applicants must have a Ph.D. or equivalent degree. Applicants must demonstrate a record of exemplary research and the potential for leadership in magnetic fusion science. The successful candidate will be expected to: (1) perform research on the Compact Toroidal Hybrid (CTH) stellarator experiment at Auburn University, (2) provide direction to graduate students and post-doctoral researchers in magnetic fusion science, and (3) conduct excellent instruction at the undergraduate and graduate level.

Interested candidates should send a letter of interest, a curriculum vitae, and the names of three references to Ms. Freddie Killian (killifl@auburn.edu). Review of applications will begin 1 February 2011 and will continue until the position is filled. The desired starting date is 15 August 2011. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin and continue working legally for the proposed term of employment; excellent communication skills required. *Auburn University is an affirmative action, equal opportunity employer. Minorities and women are encouraged to apply.*

18. Research Experiences for Undergraduates, Astronomy, Cornell University

The Department of Astronomy of Cornell University is pleased to announce that pending funding from the National Science Foundation, it will conduct its 2011 summer Research Experiences for Undergraduates (REU) program. The following web page contains more information and a link to the application form:

<http://astro.cornell.edu/specialprograms/reu/index.html>

Please forward this message as appropriate and post the attached flyer on bulletin boards and other high-traffic student areas.

Contact: Patricia Fernández de Castro, Ph. D.
REU Program Coordinator
510 Space Sciences Building
Cornell University
Ithaca, NY 14853-6801
Phone: 607/255-0288

19. CRISP Research Experiences for Undergraduates, Yale University.

Please note that the application deadline is February 1, 2011

The Center for Research Interface Structures and Phenomena (CRISP) is a National Science Foundation (NSF) Materials Research Science & Engineering Center (MRSEC) at Yale University.

Flyer: http://www.crisp.yale.edu/images/b/b8/CRISP_REU_2011_SURF.pdf

Website: http://www.crisp.yale.edu/index.php/REU_Program

The CRISP Research Experiences for Undergraduates (REU) fellowship program provides students with the opportunity to conduct team-based interdisciplinary research. During the course of this eight-week research program, fellows will be conducting research under the advisement of university faculty and researchers.

REU FELLOWSHIP PROGRAM: June 6 – August 01, 2011

STIPEND: Each REU participant will receive a fellowship stipend of \$3000 PLUS an additional stipend of \$1000 for food expenses at the start of the program. This is a residential program and university housing will be provided on the Yale campus.

ELIGIBILITY: This program is open to highly motivated undergraduate students who have completed their junior year, although consideration is given to exceptionally well qualified underclassmen. US citizenship or permanent citizenship is required. Minorities, women and persons with disabilities are strongly encouraged to apply.

APPLICATION PROCESS: Candidates should apply directly to the Yale SURF program through the Leadership Alliance at www.theleadershipalliance.org. Students must also complete a supplementary application for CRISP to indicate interest (available at the CRISP website). The application deadline is February 1, 2011.

Contact: Jacquelynn Garofano, Education & Outreach Coordinator, CRISP, o: 203.392.8959; f: 203.392.6466, www.crisp.yale.edu, www.southernct.edu/crisp

20. Visiting Astronomer, Swarthmore College

Swarthmore College, a selective liberal arts college just outside Philadelphia, is seeking an astronomer interested in teaching small classes of enthusiastic students as a visiting assistant professor, beginning in

fall 2011. The position is for two years, with the second year contingent on good job performance. The Physics and Astronomy Department at Swarthmore has seven physicists, two astronomers, and roughly 15 students per class year in the physics or astrophysics majors. The college and the department value committed, excellent teaching. The teaching load is two classes and one lab, or two labs and one class, per semester, mostly in introductory and upper-level astronomy. Members of the department are active researchers and involve students in their research.

We have a two-year-old 0.6-meter telescope with a large-format CCD and an echelle spectrograph which we use for research and teaching. Current projects include searches for transit timing variations of exoplanets and spectroscopy of massive star magnetospheres.

The position of visiting assistant professor is accorded similar status to that of tenure-track junior faculty at Swarthmore, with travel and research funding, a starting salary in the mid-\$60k range (depending on experience), and excellent benefits. Swarthmore College has a strong commitment to promoting the benefits of diversity and social justice within the campus and global community. Our department is no exception. Women and underrepresented minorities are especially encouraged to apply. Swarthmore College is an Equal Opportunity Employer.

Information about the department, including the astronomy curriculum and research areas of current faculty, is available at <http://physics.swarthmore.edu>.

Candidates should submit a statement describing their teaching experience and possible teaching plans if they were to come to Swarthmore, and a separate statement describing their research (in terms non-experts can understand), including plans for involving Swarthmore undergraduates in their research. Candidates should also submit a CV and arrange to have three letters of recommendation sent separately. Application materials should be sent to the address posted; letters of recommendation can also be e-mailed to jobsearch@astro.swarthmore.edu. Review of applications will begin February 1, 2011.

21. Tenure Track Assistant Professor, California State University San Marcos

California State University San Marcos has an opening for a tenure track assistant professor of physics to begin August 2011. Candidates must have a Ph.D. in physics, applied physics, or a closely related field. Successful candidates will have a demonstrated commitment to excellence in undergraduate teaching and be able to develop a research program that involves undergraduates. The preferred research area is biological physics or a related area such as medical physics, applied optics, acoustics, or soft condensed matter; however exceptional candidates in other research specialties will be considered. Applicants should submit a letter of application, a curriculum vitae, a one-page statement of teaching philosophy, a one-page statement of future research plans, and arrange for three letters of reference to be sent to: Physics Search Committee, Department of Physics, California State University, San Marcos, CA 92096-0001. To assure full consideration, all application materials should be postmarked on or before 2/1/2011. However, applications will be accepted until a suitable candidate is found.

California State University San Marcos is an Affirmative Action/Equal Opportunity Employer strongly committed to equity and diversity and seeks a broad spectrum of candidates in terms of race, sexual orientation and identity, gender, age, and disability or veteran's status. The university is particularly

interested in candidates who have experience working with students from diverse backgrounds and a demonstrated commitment to improving access to higher education for under-represented groups.

CSUSM has been designated as a Hispanic Serving Institution (HSI) and an Asian American Native American Pacific Islander Serving Institution (AANAPISI) and was recently named one of the top 32 Colleges most friendly to junior faculty by the Collaborative on Academic Careers in Higher Education. For more information, please visit <http://www.csusm.edu/facultyopportunities>.

22. Jose Mestre and Gary White elected as new APS Fellows

NSHP congratulates NSHP friends Jose Mestre and Gary White for their election as APS fellows:

Jose Mestre (University of Illinois)

Citation: For ground-breaking applications of principles and methodologies from cognitive science to physics education research and for elucidating expert-novice performance differences in physics learning and problem solving.

Gary White (American Institute of Physics)

Citation: For inspired leadership of the Society of Physics Students, including successful efforts to facilitate the increased participation of undergraduate students in local and national activities.

Congratulations!

23. U. California, Berkeley's 2011 Summer Research Opportunity Program.

Please be reminded that the deadline for students to apply to the University of California, Berkeley's 2011 Summer Research Opportunity Program (SROP) is February 1, 2011.

SROP offers students opportunities for faculty-mentored research in the fields of Astronomy, Astrophysics, Chemistry, Computer Science, Earth & Planetary Science, Geology, Geophysics, Mathematics, Physics, and Statistics. The eight-week program will be held on the UC Berkeley campus from June 5 through July 30, 2011. Participants are provided with round-trip airfare, room & board, stipend, graduate school preparation workshops, GRE prep course, UCB application fee waiver, and more.

Basic eligibility requirements include: U.S. citizenship or permanent resident status; sophomore, junior, or non-graduating senior status; a 3.0 or higher cumulative GPA; demonstrated potential for success and an interest in pursuing graduate study. The SROP selection committee follows a comprehensive review and weighs each applicant's academic and personal achievements, preparation for research, and the availability of faculty mentors in their field of interest.

You may access the 2011 program description and application online at:

<http://grad.berkeley.edu/diversity/srop.shtml>.

If you have additional questions, please contact the Graduate Diversity Program at (510) 643-6010, or email us at grad.diversity@berkeley.edu.

24. Director, Undergraduate Labs, Washington State U., Pullman, Washington.

We are seeking to fill the position effective August 1, 2011. Additional information is available on our website at: <http://www.physics.wsu.edu>.

Contact: J. Thomas Dickinson
Regents Professor and Chair of Search
Department of Physics and Astronomy
Washington State University
PO Box 642814, Pullman, WA 99164-2814

(509) 335-9532, (509) 335-7816 (FAX)

25. Summer internships at Fermilab

Each year, Fermilab, one of the world's leading physics laboratories, offers summer internships to a small number of highly qualified students. These internships are directed by our most motivated scientific and engineering staff, and each year the results have been outstanding. The Fermilab SIST program is in its 41st year, the oldest internship program of its type in the US laboratory system.

We have a detailed website where students can find the information on their own. Please encourage your students to check our website to learn more about the program.

<http://sist.fnal.gov>

The application is has been streamlined and simplified: any student can download a copy of the PDF application from the SIST website. The application along with two letters of recommendation and an official transcript are sent to SIST. The application is available on our website now and the deadline is February 18th.

We hope you will encourage your best students to apply. Thank you for your consideration!

Jamieson Olsen
Fermilab SIST Committee chair

26. NSBP announces new recruiting and application tool

*** <https://gradapps.nsbp.org/> ***

NSBP is pleased to announce two Web-based applications that allow students to upload all the essential elements of a graduate school or REU internship application to a database. Graduate and REU programs can subscribe to this database. This service lowers one of the barriers to graduate school by providing an opportunity for students to put their credentials in front graduate program committees at multiple institutions.

There are 185 Ph.D programs in physics, and 29 separate astronomy Ph.D programs in the United States. In addition, there are nearly 70 terminal masters programs in physics and astronomy. Because of money and time constraints, normally students have to first decide upon a finite set of graduate programs to

which to apply. Through this new NSBP service students can upload the elements of a graduate school application including academic history, transcripts (as PDF copies), GRE scores, letters of recommendation, work/internship history and a personal statement (as a PDF).

The service is available for both graduate programs and REU internship programs.

27. Gravitational Wave Summer School, May 30-June 10, South Padre Island

The 7th annual Gravitational Wave Summer School takes place May 30-June 10 at South Padre Island, Texas. This program is an intensive introduction to different areas of gravitational wave astronomy. Travel, lodging and per diem are available for US citizens. Some partial travel scholarships are available for international students.

The course is intended for advanced undergraduate students and beginning graduate students. Familiarity with Matlab would be helpful.

<http://phys.utb.edu/outreach/gwasummer2011/>

28. Accelerator Science Post Doctoral Fellow

Thomas Jefferson National Accelerator Facility (Jefferson Lab), Newport News, VA. As a user facility for scientists worldwide, its primary mission is to conduct basic research of the atom's nucleus at the quark level.

Jefferson Lab seeks Accelerator Science Post Doctoral Fellows to provide accelerator design and beam dynamics calculation support for the conceptual design of a medium energy electron-ion collider (MEIC) in the Center for Advanced Studies of Accelerators (CASA). Current areas of research include design of MEIC ion large poster, design of MEIC interaction regions, dynamic aperture studies, polarized beams in figure-8 storage rings, beam instabilities and feedback systems, beam-beam and other collective beam problems, design of MEIC electron cooling facility and cooling simulation studies. It is expected that the incumbent will work under supervision of a senior staff and will interact closely with other members of CASA and external collaborators in a fast-paced dynamic team working environment. It is also expected that the incumbent will document the results of the studies in MEIC design report, appropriate journals and conference proceedings

You may apply on-line at www.jlab-jobs.com and please arrange to have two letters of reference sent to Geoffrey Krafft (krafft@jlab.org).

We are an Equal Opportunity/Affirmative Action Employer.

Experience

Demonstrated knowledge of general accelerator physics including linear optics, synchrotron motion, beam dynamics and instabilities. Prior knowledge in any of the following subjects: linac accelerators, storage rings, colliders, beam polarization, collective beam phenomena and beam cooling, as well as any working experiences in accelerator design and research are not required but will be strongly preferred. Demonstrated ability in applying numerical techniques to particle accelerators. A working knowledge, familiarity, and fluency in a number of accelerator design and beam dynamics codes will be a plus.

Jorge A. López
Schumaker Professor
Physics Dept., UTEP, 915-747-7528
[Academic information](#)
[What have I been doing?](#)

Texas A&M University
Department of Physics
Physics Today, 1/3 square
4.5625" x 4.75", 2-color



TEXAS A&M
UNIVERSITY

Senior Nuclear Physics Faculty Position

Department of Physics and Astronomy

The Department of Physics and Astronomy at Texas A&M University is seeking a highly accomplished experimental nuclear physicist to join the department under the auspices of the newly established Nuclear Solutions Institute. This new institute combines basic and applied nuclear science with nuclear security technology and policy; it already encompasses a broad spectrum of faculty members drawn from across the university.

The successful candidate for this position will assume a tenured position at the full professor level in the Department of Physics and Astronomy, with a joint appointment in the Cyclotron Institute and the Nuclear Solutions Institute. He/she will be expected to lead a vigorous basic research program based at the Cyclotron Institute and employing the facilities there, which include two cyclotrons – a newly refurbished K150 and a superconducting K500 – together with a wide variety of modern experimental equipment. An upgrade project, now underway and planned to be completed in 2012, will utilize the two accelerators to make radioactive beams available to all target locations.

Interested parties with a Ph.D. or equivalent in nuclear science or a related field should send a CV and a statement of research accomplishments via e-mail to senioresearch@comp.tamu.edu. We also encourage informal enquiries, which can be addressed to the head of the search committee, John Hardy, at hardy@comp.tamu.edu or at +1 (979) 845-1411.

Texas A&M University is an equal opportunity and affirmative action employer. The university is dedicated to the goal of a culturally diverse, pluralistic faculty and staff and encourages applications from women, minorities, individuals with disabilities, and veterans. The university is particularly responsive to the needs of dual-career couples.

TRAVEL FELLOWSHIPS for XXII IUCr Congress, Madrid, August 22-31, 2011

The U.S. National Committee for Crystallography will provide partial support for travel to the IUCr Congress in Madrid, Spain <http://www.iucr2011madrid.es/>. Graduate students, post-doctoral fellows, or untenured faculty members in any of the crystallographic, diffraction, and imaging sciences affiliated with the IUCr are eligible to apply <http://www.iucr.org/>. Undergraduate students will be considered in exceptional cases. Applicants must be training at a U.S. institution. Applications from underrepresented minorities will be especially welcome. Recipients are expected to submit a short report (*) in return for their support after the meeting.

An application should include the following:

1. Cover page indicating name, academic program, expected graduation year, address, telephone number, fax, and e-mail address of the applicant and name and address of mentor;
2. A current Curriculum Vita for the applicant;
3. Abstract including title and authors, with applicant as presenter, submitted for presentation at the 2011 IUCr Congress;
4. A paragraph by the applicant describing where they are in their career and why they want to attend the Madrid meeting;
5. A letter of recommendation from the mentor detailing the group's travel funding and explaining why funds from the USNC/Cr are needed.

Send applications to:

Cora Lind
Department of Chemistry, MS 602
The University of Toledo
Toledo, OH 43606
(419) 530-1505
fax: (419) 530-4033

cora.lind@utoledo.edu



Deadline: 1 March 2011.

()The amazing part of an IUCr congress is the great opportunities to interact with scientists from all over the world. The participants represent their national science and technology, and I believe that the intellectual communications and exchanges at such congresses are most beneficial for each scientist. Therefore, it is extremely important that young scientists in the US attend such conferences and broaden their network internationally. The travel fellowship program makes these opportunities possible for students and postdocs from many scientific institutions.*

