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**The Hispanic Physicist**  
**A news service of the National Society of Hispanic Physicists**  
**Please send news, letters, congratulations, announcements, to**  
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### 1. NSHP at the USA Science and Engineering Festival

THE USA Science and Engineering Festival was held October 23 & 24 on the Capital Mall in Washington DC on October 23 & 24. Attendance was over 200,000 consisting of predominantly 2nd - 6th graders, their parents and their siblings. Juan Burciaga, from Denison University and NSHP's Education Officer, organized an NSHP booth, "Puzzles, Mysteries, and Demonstrations," utilizing science demos from Denison. The booth was manned on Saturday by Juan and Juan Arvelo, from the Applied Physics Laboratory at Johns Hopkins University and the Acoustical Society of America, and on Sunday by Juan and Luz Martinez-Miranda, from the University of Maryland and President of NSHP. Juan Arvelo brought some acoustic demos on Saturday.

About 2,000 people visited our booth on Saturday and 1,600 on Sunday. Many people took an interest in NSHP and wish to continue working with us either looking for individual ways of

keeping their children interested in science, having science demos come to their school or organization, or working with us to promote science to students and particularly minority students. We believe that such science festivals are becoming more popular. NSHP should not only be a participant in this movement but a leader. We need to work to put in place a plan and the finances necessary for us to fulfill that role. Many thanks for the fine job and leadership provided by Juan B, and to Juan A and Luz for their fine work.

For more info and a picture of Juan y Juan at the booth, please go to:

[http://www.aip.org/aip/aipmatters/archive/2010/11\\_1\\_10.html](http://www.aip.org/aip/aipmatters/archive/2010/11_1_10.html)

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## **2. California State University, Long Beach, Theoretical Physics With A Computational Emphasis**

**POSITION:** Tenure-Track Position: Assistant Professor; Associate Professor level considered for exceptionally experienced candidates

**EFFECTIVE DATE:** August 22, 2011 (Fall 2011 semester)

**MINIMUM QUALIFICATIONS:** Doctoral degree in physics or a related field with an outstanding record of research in theoretical physics in which computational methods play a significant role. Candidates must show evidence of commitment to excellence in teaching at both the undergraduate and graduate levels and ability to communicate effectively with an ethnically and culturally diverse campus community. Candidates must show potential for developing and sustaining an externally funded research program involving students. Candidates must have a commitment to and/or experience in educating a diverse student population.

**DESIRED/PREFERRED QUALIFICATIONS:** Postdoctoral research experience. Research focus compatible with, but not limited to, current department research interests (<http://www.csulb.edu/depts/physics/>). Experience in effective teaching at both the undergraduate and graduate levels. Evidence of obtaining externally funded grants. A record of significant publications at the forefront of physics. Experience or interest/intent to engage undergraduate majors in research.

**PROBABLE SALARY RANGE:** Commensurate with experience and background: for Assistant professor, \$65,500 to \$71,000; for Associate Professor, \$71,500 to \$79,500.

**DUTIES:** The candidate may teach courses at all levels, including lower division undergraduate courses. The candidate will supervise research of both undergraduate and graduate students. The department has shared computing resources and infrastructure described at the website for our computational physics program, accessible from <http://www.csulb.edu/depts/physics/>. The candidate will leverage startup support to develop and sustain a research program that involves students, leads to publications and external grants, takes advantage of shared existing computational resources. The candidate will participate in activities that serve the department, college, university, and community.

**APPLICATION DEADLINE:** Screening will start in early December, 2010. Applications will be accepted and considered until the position is filled or canceled. Applications, required documentation, and requests for information should be addressed to:

Faculty Search Committee  
Department of Physics and Astronomy  
California State University, Long Beach, CA 90840-3901  
(562) 985-7925; email: [jdhoward@csulb.edu](mailto:jdhoward@csulb.edu), Fax: (562) 985-7924

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### **3. Faculty Position in Physics, University of Wisconsin – Madison**

The Department of Physics at the University of Wisconsin – Madison seeks to fill a faculty position beginning August 2011. We are targeting candidates in experimental neutrino physics at the Assistant Professor level. Ph.D and post-doctoral experience required prior to start of appointment. Applications must be submitted by December 31, 2010 through the web site: <http://www.physics.wisc.edu/apply/fac-search-2010/>. The material submitted should provide evidence of teaching skills and the ability to carry out an independent research program. The University of Wisconsin – Madison is an equal opportunity/affirmative action employer, and especially encourages women and underrepresented minorities to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. A criminal background check may be required prior to employment.

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### **4. Faculty Positions, Theoretical Nuclear/Astro Physics/Theoretical Condensed Matter, Indiana University**

The Department of Physics at Indiana University invites applications for two positions in theoretical physics: one in condensed matter physics and one in nuclear/astro physics, subject to funding and approval for appointment beginning Fall 2011. Candidates will be evaluated for appointment at the tenure-track assistant professor level at a salary commensurate with qualifications and experience. Members of IU's world-class efforts in Nuclear and Condensed Matter theory are also active within the newly created Center for Exploration of Energy and Matter (CEEM) that provides enhanced support for research in each area and promotes cross-disciplinary research. Outstanding Ph.D. scientists from all subfields of nuclear and condensed matter physics are encouraged to apply.

The successful nuclear physics candidate will join one of the top nuclear physics groups in the US and will be expected to develop a world-class research program in any of the forefront areas of theoretical nuclear physics: QCD, physics of the quark/gluon plasma, lattice gauge theory, hadron physics, nucleon spin physics, relativistic heavy ion physics, neutrino physics, weak interactions and symmetries, nuclear astrophysics, and nuclear structure. The initial appointment will be a cooperative fellowship with the RIKEN BNL Research Center (RBRC) at Brookhaven National Laboratory for a period of up to five years. During this period, the Assistant Professor/Fellow will spend about half his/her time at Indiana University and the remaining time

at the RBRC in BNL.

Details about the group may be found at <http://www.iub.edu/~iubphys/research/nuclear.shtml>

The successful candidate for the condensed matter theory position will join a group currently engaged in research on low dimensional electron systems, superconductivity, quantum magnetism, topological quantum order and computation, optical properties of structured matter, correlated electronic and atomic systems, complex fluids, and soft condensed matter. CEEM is also home to unique facilities for the study of condensed matter systems including structure at large scales (1-1000 nm) using the Low Energy Neutron Source (LENS). More information about the group may be found at <http://www.iub.edu/~iubphys/research/condensed.shtml>

A commitment to excellence in teaching at the undergraduate and graduate level is essential. Candidates should submit a letter of application, research statement, curriculum vitae, and a minimum of three letters of reference to [physsrch@indiana.edu](mailto:physsrch@indiana.edu) or by mail to: Faculty Search, Department of Physics, 727 E. 3rd St., Bloomington, IN 47405-7105. If applying for the nuclear/astro theory position, also mail to: Dr. Nicholas Samios, Director, RIKEN BNL Research Center, Building 510A, Brookhaven National Laboratory, Box 5000, Upton, NY 11973-5000.

Applications received by January 15, 2011 will be given full consideration. Further information about the IU Physics Department can be found at <http://physics.indiana.edu>. Indiana University is an Affirmative Action, Equal Opportunity Employer strongly committed to excellence through diversity and is responsive to the needs of dual career couples. The University actively encourages applications of women, minorities, and persons with disabilities.

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## **5. Tenure-Track Assistant Professor, Department of Physics and Astronomy, University of Pennsylvania**

The Department of Physics and Astronomy at the University of Pennsylvania Invites applications for a tenure-track assistant professor appointment in the general area of experimental biological physics. We are particularly interested in scientists who will pursue research programs that complement and enhance PENN's university-wide nanoscience/nanotechnology initiative. In addition to joining departmental efforts in cell signaling, single-molecule studies, molecular self-assembly, and biosensors, the successful candidate will enjoy the benefits of numerous interdisciplinary centers including the Laboratory for Research on the Structure of Matter, the Institute for Medicine and Engineering, the Penn Muscle Institute, and the Nano-Bio Interface Center.

Applications should be submitted on-line at [facultysearches.provost.upenn.edu/applicants/central?quickFind=50808](http://facultysearches.provost.upenn.edu/applicants/central?quickFind=50808) and include a curriculum vitae, research statement, and the contact information for three individuals who will provide a letter of recommendation.

Review of applications will begin December 15, 2010 and will continue until the position is filled.

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.

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## 6. Research Experience for Undergraduates, National Solar Observatory

The [National Solar Observatory](http://www.nso.edu/) (NSO, <http://www.nso.edu/> ) expects to host a Research Experiences for Undergraduates (REU) Program sponsored by the [National Science Foundation](http://www.nsf.gov/) (NSF) in the summer of 2011. The NSO is operated by the Association of Universities for Research in Astronomy, Inc. under cooperative agreement with the NSF. The Observatory has two sites - one at Tucson, AZ and the other at Sunspot, NM - with facilities (<http://eo.nso.edu/facilities.html>) and on-going research programs in solar physics, solar-terrestrial physics, solar-stellar physics and instrumentation. Each summer interns will work on a specific [research project](http://eo.nso.edu/projects.html) (<http://eo.nso.edu/projects.html>) in close collaboration with a [scientific staff mentor](http://eo.nso.edu/mentors.html) (<http://eo.nso.edu/mentors.html>) at one of the two NSO sites. Research programs will emphasize data reduction and analysis, computer programming, instrumentation, or theoretical modeling. In addition to research experiences, summer activities will include a number of social events and excursions, and interactions with other NSO and Kitt Peak National Observatory (KPNO) summer students and visitors. Participants will present their research results at a seminar near the end of the summer, and submit a written report, which will be presented to the NSF.

Applicants also must be U.S. citizens (or permanent residents) in good academic standing and are expected to have adequate preparation in basic science and math courses. Applicants need *not* be majoring in Astronomy, although a demonstrated interest is essential.

Visit <http://eo.nso.edu/reu/> for more information.



## 7. L'ORÉAL USA ANNOUNCES CALL FOR APPLICATIONS FOR 2011 FELLOWSHIPS FOR WOMEN IN SCIENCE PROGRAM

**FELLOWSHIP GRANTS HELP WOMEN SHAPE THE FUTURE OF  
SCIENCE**

**NEW YORK, NY, November 1, 2010** – L'Oréal USA announced today the start of the application period for its esteemed **L'Oréal USA Fellowships For Women in Science** program. Now entering its eighth year, this national program annually recognizes, rewards and provides support to five women postdoctoral researchers in the U.S. who are pursuing careers in the life and physical/material sciences, as well as mathematics, engineering and computer science. As part of L'Oréal's commitment to further help women scientists achieve their goals, L'Oréal USA awards each recipient up to \$60,000 to apply toward their postdoctoral research.

Since its inception in 2003, the **L'Oréal USA Fellowships For Women in Science** program has awarded 35 fellowships to women scientists across the U.S. Each year, the program attracts a number of talented applicants from diverse scientific fields, representing some of the nation's leading academic institutions and laboratories. A distinguished jury of nine eminent scientists reviews the applications and selects the **L'Oréal USA Fellowships For Women in Science** recipients.

The five beneficiaries of the 2011 **L'Oréal USA Fellowships For Women in Science** program will be invited to attend a week of events that include an awards ceremony, professional

development workshops, media training and networking opportunities. In 2011, these workshops, which are facilitated by the American Association for the Advancement of Science (AAAS), will encompass job search techniques, interviewing skills, budget development for grant requests and strategies for peer-reviewed publication.

The **L'Oréal USA Fellowships For Women in Science** program is open to women postdoctoral researchers only. Candidates interested in applying may visit the **L'Oréal USA Fellowships For Women in Science** website at <http://www.lorealusa.com/forwomeninscience> to obtain more information about program eligibility and requirements. Applications must be submitted online by December 13, 2010 and transcripts must be postmarked no later than December 15, 2010.

The **L'Oréal USA Fellowships For Women in Science** program complements the international **L'ORÉAL-UNESCO For Women in Science** program which annually awards \$100,000 to each of five leading women career scientists; one from Europe, Asia, North America, South America and Africa. In addition, the **UNESCO-L'ORÉAL International Fellowships** annually grants, over a two year period, up to \$40,000 each to 15 promising young women scientists from around the world, at the doctoral or postdoctoral levels.

The **L'Oréal USA Fellowships For Women in Science** program and its aim to advance the careers of women postdoctoral researchers in the U.S., is especially relevant in light of America's waning competitiveness in the global marketplace. There is an urgent need to increase both the funding for basic science research in the U.S. and also the number of students, particularly girls and young women, majoring in science, mathematics and engineering.

Earlier this year, L'Oréal USA commissioned a national survey, fielded by the American Association for the Advancement of Women in Science (AAAS), of 1,300 male and female scientists. This survey exposed the insurmountable barriers women encounter in the pursuit of scientific careers. Survey respondents included male and female scientists who hold doctoral degrees and are registered users of Science online, including members of AAAS. The survey revealed:

- Nearly all female scientists (98 percent) know a female colleague who left the science field because she encountered barriers to her professional success
- More than half of female scientists (52 percent) have experienced gender bias during their career
- More than one in three female scientists (37 percent) faced barriers in having/raising children

L'Oréal understands the need to attract more women to science. In developing programs such as the **L'Oréal USA Fellowships For Women in Science**, L'Oréal's goal is to support today's women scientists, develop female role models for generations to come, and help shape the public's perception of science in a positive light, particularly among young women.

For more information, please visit: <http://www.lorealusa.com/forwomeninscience>

*For more information please contact:*

**L'ORÉAL USA**

**Virginia Niz**

Tel: +1-212-984-4474

vniz@us.loreal.com

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## **8. APS Minority Scholarship**

Do you know a minority high school senior, college freshman or sophomore who is interested in majoring in physics and could benefit from a scholarship with built-in mentoring?

The American Physical Society is once again pleased to offer the APS Scholarship Program for Minority Undergraduate Physics Majors. This excellent, highly competitive scholarship program not only provides funding to students, but also a great deal of student support. We encourage all eligible students to apply right away using our new online application.

Eligibility includes:

- African Americans, Hispanic Americans, or Native Americans
- High school seniors, college freshmen or sophomores
- US citizens or permanent legal residents
- Physics majors and those planning to major in physics

Award:

- \$2,000 for new students, and \$3,000 for renewal students
- A local physics mentor
- An APS physics mentor

To Apply: Check out the easy-to-use online application:

[www.aps.org/programs/minorities/honors/scholarship/](http://www.aps.org/programs/minorities/honors/scholarship/)

Deadline: February 4, 2011, The online application form must be completed and all supporting documents must be postmarked by the deadline date

Questions? Email [minorityscholarship@aps.org](mailto:minorityscholarship@aps.org)

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## **9. Northern Arizona University, experimental physicist tenure-track position at the Assistant Professor**

The Department of Physics and Astronomy at Northern Arizona University is seeking an experimental physicist for a tenure-track position at the Assistant Professor level beginning in August 2011. The successful candidate is expected to become an excellent and enthusiastic teacher of physics at all levels, conduct research in experimental physics, advise students, and serve on committees at both the department and university level.

The minimum qualification is an earned doctorate in physics or a related field. Preferred

qualifications include: demonstrated interest or ability to develop a research program that involves undergraduates and graduate students; a publication record and/or extramural funding in experimental physics; demonstrated interest in developing into an exceptional teacher; expertise in condensed matter physics/materials science, chemical physics, biophysics, or optics; expressed interest in interdisciplinary research with other departments; and, the ability to work with students, colleagues, and community members from diverse cultures.

Applicants should submit a CV, a statement describing teaching experience and philosophy, a statement describing research interests, and the names and contact information of three references. Send application materials to Physics Search Committee Chair, Dept. of Physics and Astronomy, Northern Arizona University, Box 6010, Flagstaff, AZ 86011-6010. The search will remain open until the position is filled or closed; however, the screening committee will begin reviewing applications on December 1, 2010. The Department is focused on providing an outstanding learning environment for our undergraduate students that includes opportunities for research. Our master's program in Applied Physics has two tracks: a course-only option for students pursuing non-academic employment in industry, and a research track for students wishing to continue in academia. We currently have active research programs in physics and astronomy and over 100 undergraduate student majors, as well as a growing Master's of Science program. Current facilities include labs for XPS, FTIR, SFM, and a computer cluster for computational physics.

Northern Arizona University is a 25,000-student institution with its main campus in Flagstaff, a four-season community of about 62,000 at the base of the majestic San Francisco Peaks. NAU's emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning. The university is committed to a diverse and civil working and learning environment. Northern Arizona University requires satisfactory results for the following: a criminal background investigation, employment history verification, and degree verification (in some cases) prior to employment. You may also be required to complete a fingerprint background check. The salary range for this position is \$57,000 to \$62,000 depending on qualifications and experience. NAU is an AA/ EEO employer. Women, minorities, individuals with disabilities and veterans are strongly encouraged to apply. Please see [www.nau.edu/hr](http://www.nau.edu/hr) for position announcement.

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## **10. Virginia Tech, Experimental Condensed Matter physics**

The Physics Department at Virginia Tech is currently conducting a faculty search to fill a position in Experimental Condensed Matter physics, in the area of solid-state and materials physics. The search focuses on tenure-track junior candidates, but applications from exceptionally qualified senior candidates will also be considered. The application procedure, the scope and requirements for the position, and information about the Department and College are contained in the position description attached below. The links in the document also provide a description of available resources.

We would appreciate it very much if you would bring this position description to the attention of potential applicants in your department, as well as, if appropriate, have the position description posted at your institution. Thank you for your assistance.

Sincerely,

Beate Schmittmann  
Department of Physics  
Virginia Tech  
Blacksburg, VA 24061, USA  
Voice: +1-540-231-7472  
Fax: +1-540-231-7511  
[www.phys.vt.edu](http://www.phys.vt.edu), [www.phys.vt.edu/~beate/schmittmann.html](http://www.phys.vt.edu/~beate/schmittmann.html)

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## **11. Robert Noyce Teacher Scholarship Program**

The Robert Noyce Teacher Scholarship program is for Graduate School of Arts and Sciences Master of Arts in Teaching (M.A.T.) students who are interested in teaching math or science at the middle or high school levels in high-need urban districts. The scholarship, funded by the National Science Foundation, provides students (known as Noyce Teaching Fellows) with full tuition scholarships, more than \$20,000 to cover living expenses, and internships under the guidance of an experienced teacher. Upon completing the year-long M.A.T. program, fellows commit to teach in a middle or high school in Boston or in a similar urban district for at least four years. The Human Resources Office of the Boston Public Schools (BPS) will help fellows find teaching positions by placing them among the pool of candidates to which the BPS gives first consideration when it comes to job openings. During each of their four years of teaching, fellows will receive a stipend of \$13,500 in addition to their annual salary, and are eligible to take one class per year at Tufts University without additional cost.

For more information about the Robert Noyce Teacher Scholarship Program or the M.A.T. program, contact Patricia Romeo at [patricia.romeo@tufts.edu](mailto:patricia.romeo@tufts.edu) or go to <http://go.tufts.edu/noyce>.

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