Victor Blanco Undergraduate Research Fellowship

The National Society of Hispanic Physicists is proud to partner with LIGO, Vanderbilt and Fermilab to provide the Victor Blanco Undergraduate Research Fellowships. See here for complete information: http://www.hispanicphysicists.org/StudentGateway/BlancoFellowships.html.

Victor M Blanco was a distinguished Puerto Rican astronomer. Blanco earned a BS at the University of Chicago and a PhD in Astronomy from the U. California, Berkeley in 1949. He taught at the University of Puerto Rico in 1949 and at the Case Institute of technology from 1950-1965. He served as Director of the Astronomy and Astrophysics Program at the US Naval Observatory for two years. In 1967 he became Director of the Cerro Tololo Inter-American Observatory (CTIO) in Chile. An open cluster which he discovered while at Case was named *Blanco I*. In 1985, an asteroid was named after him, 9550 *Victorblanco*. In 1995, the 4m CTIO telescope was re-named the *Victor M. Blanco Telescope*. He died in 2011.

Victor Blanco/LIGO Summer Research Program. LIGO is a large interdisciplinary laboratory leader in the search for gravitational waves. The Fellows will participate in the LIGO SURF program the larger Caltech summer research experience for undergraduates program: http://labcit.ligo.caltech.edu/LIGO_web/students/SURF/. Students interested in applying for the Fellowship need only apply to the SURF fellowship. **Deadline is February 5, 2017.** But an earlier submission would be good.

Victor Blanco/Vanderbilt University Summer Research Program. The Department of Physics and Astronomy at Vanderbilt University runs a summer Research Experience for Undergraduates Program supported by the NSF which offers a Victor M. Blanco Summer Research Fellowship in cooperation with the National Society of Hispanic Physicists (NSHP). To apply or for more information, go to www.vanderbilt.edu/AnS/physics/reu. Students wanting to apply for the Victor M. Blanco Summer Research Fellowship need only apply to the Vanderbilt NSF REU program. **There is an early deadline, Feb. 15,** if you want an earlier decision, or a final deadline, March 15.

Victor Blanco/Fermilab Summer Research Program. Fermilab is America's premier particle physics laboratory. Students applying for this program should do it through the SIST web site, http://eddata.fnal.gov/lasso/sist/apply.lasso. Important, students should enter the statement, “I am applying for SIST-Victor Blanco/NSHP fellowship program at FermiLab” in the Work Experience box on the application. **The deadline to apply is January 29, 2017.** But an earlier submission is strongly encouraged.

José Roberto Morales, Chilean Nuclear Physics Pioneer, dies.

Roberto Morales (Ph.D. U.C Davies, 1970) was a pioneer in establishing nuclear physics research in Chile, especially in the area of environmental radiation and studies of cultural heritage. Roberto was a distinguished academician at the Universidad de Chile and a collaborator of the Chilean Nuclear Energy Commission (CCHEN). He is considered as the initiator of what is now a large number of generations of Chileans nuclear scientists and educators. Among his many awards, Roberto received a special recognition from the CCHEN in 2014 for his research on nuclear and particle physics. Morales founded the Chilean Network of Nuclear Physics and Applications and was a strong supporter of the Latin American Symposium of Nuclear Physics and Applications.

**He will be missed by many of us.**
**Contra Costa Community College District - Physics Assistant Professor**

**Posting Number:** F00264, **Location:** Diablo Valley College, **Salary:** $58,452 - $87,960.

Diablo Valley College is seeking a full-time tenure track assistant professor in Physics to begin August 2017. The successful applicant will be well qualified to teach all lower division physics courses, including lectures and labs.

**Inquiries:** Contact Diablo Valley College Office of Instruction at 925-969-2004. **Position Status:** Tenured Track.

In addition to contractual duties, all full-time faculty are expected to participate actively in their disciplines, department activities, and the general intellectual life and governance of the college. Part of the teaching assignment may be in the evening and/or online. The applicant must possess one of the following qualifications (earned degrees must be from an accredited college/university): Master’s degree in physics, astronomy, or astrophysics; or Bachelor’s degree in physics or astronomy AND a master’s degree in engineering, mathematics, meteorology, or geophysics; a valid California Community College Instructor Credential authorizing full-time instruction in Physics; or the equivalent. If you do not possess the EXACT minimum qualifications (i.e. you do not possess the exact degree listed) and believe that you meet the minimum qualifications because of equivalent educational or professional background, please fill out the equivalency form found in the attachment section of the application. You can copy and paste the following in your browser to obtain the equivalency form: [www.dvc.edu/masters-equiv](http://www.dvc.edu/masters-equiv)

**Job Open Date:** 12/15/2016, **Job Close Date:** 1/30/2017, **Open Until Filled:** No, **Employment Begins:** August 2017, **# of Months:** 10, **To apply:** visit [http://apprkr.com/935621](http://apprkr.com/935621).

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**Research Experiences for Undergraduates in Renewable Energy**

**Colorado School of Mines**

The Renewable Energy Materials Research Science and Engineering Center (REMRSEC) REU program at Colorado School of Mines invites exceptional undergraduate math, science, and engineering students to participate in a ten-week (May 22, 2017 to July 28, 2017) summer research program addressing fundamental materials issues related to the science and technology of renewable energy. These highly interdisciplinary studies focus on multiple areas that are open to all materials science, engineering, physics, chemistry, mathematics, chemical engineering, and computer science majors. Benefits include a $5000 stipend, on-campus housing, travel reimbursement, and financial support to present research results at an upcoming national conference. Application materials, as well as videos of the college campus, REMRSEC, and previous student research projects can be found at [http://remrsec.mines.edu/reu.htm](http://remrsec.mines.edu/reu.htm). The application deadline is March 1, 2017, although strong candidates will be accepted early. For more information contact Dr. Chuck Stone – Director, REMRSEC REU, Colorado School of Mines, 1232 West Campus Road, Golden, CO 80401 [Email: cstone@mines.edu](mailto:cstone@mines.edu) and Phone: (303) 273-3762.

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**Post-doctoral at TRIUMF, Gamma-Ray Spectroscopy at ISAC**

The gamma-ray spectroscopy group at TRIUMF-ISAC is seeking a highly qualified post-doctoral researcher to join our experimental nuclear physics program in the structure of exotic nuclei. The gamma-ray spectroscopy group supports a broad portfolio of programs in nuclear structure, nuclear astrophysics, and fundamental symmetries, and is responsible for operation of the gamma-ray spectroscopy infrastructure to support that portfolio. A large part of our program involves in-beam gamma-ray spectroscopy using the TRIUMF-ISAC Gamma-Ray Escape Suppressed Spectrometer, TIGRESS, and beams from the ISAC-II radioactive ion accelerator. The successful applicant will be expected to engage in and collaborate on our ongoing research initiatives in in-beam gamma-ray spectroscopy experiments with TIGRESS, and will be expected to assume certain responsibilities in support of the TIGRESS facility. The incumbent will also be encouraged and supported to lead their own research initiatives within the group.

Further information about working at TRIUMF may be found at [http://www.triumf.ca/careers](http://www.triumf.ca/careers). Applications will be accepted until the position is filled. If you have any questions about the the gamma-ray spectroscopy group, our research portfolio, the post-doctoral position, or TIGRESS, please contact Dr. Greg Hackman [hackman@triumf.ca](mailto:hackman@triumf.ca).

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Accelerator Scientists - Research Associate - Cornell Laboratory for Accelerator Sciences and Education

CLASSE has openings for accelerator scientists for projects including: (1) design, construction and commissioning of a multturn energy recovery linac (ERL) with FFAG optics, (2) upgrade of the 5 GeV storage ring for single beam operation with undulators as a source of hard xrays, (3) high brightness electron sources, (4) and development of instrumentation and beam physics experiments with the CESR Test Accelerator (CesrTA). The successful candidate will contribute to one or more of these activities by developing beam optics, accelerator equipment or beam instrumentation, and participating in commissioning and operations. CLASSE is a world leader in accelerator science and its applications.

Requirements include:

- PhD in physics or engineering, with a background in one or more of the following: electrodynamics; high power RF technology and sources; electron beam physics; beam instrumentation;
- Demonstrated experience with experimental systems;
- Demonstrated strong written and verbal communication skills;
- Ability to direct technical support personnel;
- Experience working successfully as part of a team in a collaborative and multidisciplinary scientific environment;
- Familiarity or ability to quickly learn safety practices relevant to radiation generating devices.
- The initial appointment is for three years with the possibility of extension.

Applications should be submitted at http://academicjobsonline.org/ (posting 8763) and should include a cover letter, a CV, a list of publications, a detailed summary of research experience and interests. Applicants must arrange to have at least three letters of recommendation uploaded, as per instructions on the academicjobsonline website. The starting date is negotiable.

Instructor of Physics

NORTH CAROLINA SCHOOL OF SCIENCE AND MATHEMATICS

Position reports to the Dean of Science and is responsible for providing instruction for Physics. General duties include: develop and develop an instructional program that helps students assimilate specific course content and skills; hold tutorial sessions as outlined by discipline; regularly monitor and evaluate students’ progress, providing them with resources and feedback on their performance; structure and manage an environment conducive to learning; model for students responsibility to self and others; follow the School’s philosophy, policies, and procedures; serve as academic advisor to a small group of students (beginning in the second year of employment); serve as a Mini-Term sponsor; attend departmental, faculty, and staff meetings; serve on departmental, faculty, and school-based standing committees; write recommendations for up to 15 students each year (appropriate percentage for part-time teachers), as requested; participate in professional development and personal intellectual growth activities. Participate in one or more of the following activities: provide information, service, and expertise to other schools and organizations; assist students on special projects, independent and individual study, and seminar-based studies; participate in the Admissions Process by recruiting, selecting, and advising prospective students; participate in the NCSSM alumni activities; provide assistance for school-sponsored programs and extra-curricular activities.

Specific Duties: Teach 3 sections of introductory and/or elective physics courses each trimester, with special emphasis on lab-based activities.

How To Apply: Submit electronic application via: http://www.nc.gov/jobs. Please create an account, search for Instructor of Physics vacancy, and complete/submit online application. Please include a cover letter that addresses your interests in teaching physics to gifted high school students, and statement of teaching philosophy.
Summer 2017 research programs

The University of Nebraska’s summer program offers research opportunities in the science, technology, engineering, and mathematics fields in addition to an interdisciplinary Minority Health Disparities program aimed at converting cutting edge social and behavioral research into an understanding and reduction of health disparities among minorities.


During the Nebraska Summer Research Program, students receive first-hand exposure to research and the experience of graduate school. They work closely with faculty mentors and research teams of graduate students and other summer scholars. Students also have opportunities to participate in meaningful social and professional development activities outside of the laboratory.

Our online application makes it easy for students to apply. Priority review begins Monday, February 1 and all applications must be completed by Tuesday, March 1. Students historically underrepresented in graduate education and students from academic institutions where research programs are limited are especially encouraged to apply. Contact: ALISHA HANSHAW, Director, Graduate Enrollment, University of Nebraska-Lincoln, 402.472.2869, ahanshaw2@unl.edu.

FRIB Visiting Scholar Program for Experimental Science 2017

The Facility for Rare Isotope Beams (FRIB) and the National Superconducting Cyclotron Laboratory (NSCL) invite applications for the FRIB Visiting Scholar Program for Experimental Science 2017. The program was started to encourage and help junior researchers to establish a research program at FRIB/NSCL. The Award supports short term stays at FRIB/NSCL for junior/non-tenured faculty or staff members. The award consists of a stipend of $5,000 intended for travel and local expenses. A typical stay would be for one to two months during which the Scholar is expected to focus on current and/or future experiments at FRIB/NSCL. Each year up to two awards will be made.

Interested individuals should send a CV and a 1-2 page description of the research program and specific goals of the stay directly to: Professor Michael Thoennessen, 640 S. Shaw Lane, FRIB/NSCL, Michigan State University, East Lansing, MI 48824, OR e-mail the documents to thoennesen@frib.msu.edu. The deadline for the applications is January 31, 2017.

Detector Physicist at The National Superconducting Cyclotron Laboratory

The National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University (MSU) is searching for a detector physicist to join the NSCL Detector Laboratory.

Major Position Responsibilities
• Fabricate, optimize, and maintain detector systems for Operations and Nuclear Physics experiments;
• Support the development and R&D of new detector systems; and
• Perform research and development projects to enhance the performance of the facility

Qualifications
A Ph.D. in physics or chemistry in the area of nuclear, particle, or high energy experimental physics is required. Individuals should be self-motivated and able to work well within a team. The position also requires excellent communication, planning, and organizational skills. Experience with construction and development of particle and radiation detectors such as ion chambers, gas proportional counters, position tracking detectors, scintillators, and silicon detectors is required. Operational experience with larger detector setups in experimental devices, including detector maintenance and data acquisition, is desired. For immediate consideration, please visit jobs.msu.edu, search for posting number 4365 and follow the application process.
We are now recruiting for our National Science Foundation (NSF) supported Research Experiences for Undergraduates (REU) program (May 14 to July 21, 2017) in "Experimental and Computational Materials Research". We offer a broad range of interdisciplinary materials research experiences to undergraduate students with diverse backgrounds in physics, chemistry, applied mathematics, and engineering. The stipend for the 10-week period is $5000 and housing will be provided to non-local participants.

The research projects include, but are not limited to, electronic materials, nano-materials, lasers & optical materials, biosensors, biophysics & biomaterials and computer modeling. The scientific research projects are developed specifically for undergraduates by an interdisciplinary team consisting of science and engineering faculty at UAB.

Please find attached a recruitment poster for display in high traffic and accessible areas. Also note that the application will be submitted electronically via our web site: https://cas.uab.edu/cnmb/research-experiences-for-undergraduates/. Applicants will need to submit an official transcript and request recommendations from two (2) faculty members. **Our application deadline is March 15, 2017.** Decisions will be made no later than April 1, 2017.

We would appreciate it if you would bring this summer research opportunity to the attention of all qualified undergraduates at your institution. We are especially interested in receiving applications from qualified women and underrepresented minority candidates. If students have any questions about logistics, housing, and travel arrangements, they may contact Charita H. Cadenhead, our Program Coordinator at (205) 975-8076 or via e-mail at charita@uab.edu. Contact: Yogesh K. Vohra, Professor & University Scholar, Director, REU-Program, Phone: (205) 934-6662, ykvohra@uab.edu.

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**Summer research programs with U.S. Air Force Research Lab, Army Research Lab and the Army Institute for Surgical Research**

I am excited to share the following civilian summer research programs with the U.S. Air Force Research Lab, Army Research Lab and the Army Institute for Surgical Research. All opportunities can be located at www.orau.org/maryland. A single application can be utilized to apply to all of these programs and other DoD research opportunities. I am e-mailing institutions across the country in attempt to alert students about the available opportunities. Please share my e-mail with your students and faculty to encourage your students to apply to these great research opportunities. The opportunities that I am e-mailing you about today with be located either in OH, MD or TX at the respective research laboratory. The start dates for each summer program will vary slightly. In addition to summer research opportunities, we have even more opportunities for post-graduates from the BS-PhD level. We will continue to receive additional research opportunities as we approach late Spring, however, the programs listed below wanted to get a jump start on the recruitment process. The application deadlines will vary from one program to the next, but most Selecting Officials will like to start reviewing the applicants following the first of the year. Selected participants will receive monthly stipends for their research participation within each program.

**U.S. Air Force Research Lab - 2017 Repperger Internship Program** (39 opportunities for BS students - PhD candidates) - U.S. Citizenship Required, Information Webpage: [http://www.orau.org/maryland/repperger.html](http://www.orau.org/maryland/repperger.html)

**U.S. Army Research Lab - Summer Journeyman Fellowship Program** (50+ opportunities for BS graduates - PhD candidates) - Non U.S. Citizens may apply for consideration: Information Webpage: [http://www.orau.org/arlfellowship/applicants/programs/journeyman-fellows-summer-program.htm](http://www.orau.org/arlfellowship/applicants/programs/journeyman-fellows-summer-program.htm)

**U.S. Army Institute for Surgical Research - Summer Internship Program** (12 opportunities for BS students) - U.S. Citizenship Required: Information Webpage: [https://www.orau.org/maryland/isr.html](https://www.orau.org/maryland/isr.html)

Contact: **Mike Janney, MA**, Scientific Assessment and Workforce Development, Sr. Recruiter, ORAU, (410) 306 9217 (office), (410) 618 7981 (cell), michael.janney@orau.org, [Follow Mike on LinkedIn](http://www.orau.org/maryland/isr.html)
A free residential summer program in nuclear science and astrophysics for current high school students on the campuses of Michigan State University and University of Notre Dame.

Two one-week sessions in 2017:
June 25 - 30 (University of Notre Dame)
July 23 - 28 (Michigan State University)

Apply online by March 31, 2017 at www.jinaweb.org/outreach/pan

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2017 RESEARCH EXPERIENCES FOR UNDERGRADUATES

The Department of Astronomy of Cornell University is pleased to announce its summer undergraduate research program. Students will work on individual research projects with Cornell faculty and research staff on a wide range of topics in planetary science, astronomical instrumentation, astrophysics, general relativity and cosmology. In addition to conducting individual research projects, students will also participate in a series of activities including lectures, roundtables and workshops. Students interested in computer science and engineering are also encouraged to apply.

For each participant, a stipend of $5,000 will be provided for the ten week session, plus up to $1,500 for housing and meals. The program will also provide reasonable support for travel to a professional meeting to present scientific results. Program dates are June 1 to August 9 (but participation may be adjusted for conflict with academic schedules). Undergraduate students who will graduate after January 2018 and who are US citizens or permanent residents may apply. Students must have completed at least one year of undergraduate academic training by June 2017. Eight Research Assistantships will be available.

To view the research projects and to apply, please visit: <http://astro.cornell.edu/specialprograms/reu/>

Completed applications AND supporting materials must be received by Monday, February 6, 2017.

Contact:
REU Astronomy Coordinator
reu@astro.cornell.edu
(607) 255-0288

Cornell University is an equal opportunity employer.
INTERDISCIPLINARY RESEARCH

- Atomic scale design, control and characterization of complex oxide interfaces
- Studying the novel chemical, electronic, and magnetic properties of nanomaterials
- Multi-scale surface engineering with bulk metallic glasses
- Theoretical modeling of nanomaterials, surfaces, and interfaces at the atomic level
- Synthesis of materials at the atomic scale

Applications due by Feb. 1, 2017

crisp.yale.edu

CRISP Center for Research on Interface Structures and Phenomena

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

RESIDENTIAL REU PROGRAM: June 5–July 31, 2017

STIPEND:
Each REU participant will receive a stipend of $4000 (which includes $1000 for food). 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 residency is required. Minorities, women and persons with disabilities are strongly encouraged to apply.

APPLICATION PROCESS:
Starting Nov. 1 candidates must apply directly to the Yale SURF program through the Leadership Alliance at www.theleadershipalliance.org. Students must also complete the CRISP supplementary application to indicate interest available at http://crisp.southernct.edu.

CRISP is an NSF-funded Materials Research Science & Engineering Center
The NU-MRSEC offers a 9-week summer research experience for undergraduates located near the city of Chicago. Students are paired with leading researchers in science and engineering fields. Research areas include ceramics, nanocomposites, photonics, nanoparticles, molecular electronics, and biomaterials. Participants are paid a $4,500 stipend and travel expenses and housing are provided.

Program dates: June 19 - August 18, 2017
Applications Due: February 15, 2017

Apply online at www.mrsec.northwestern.edu
An NSF Research Experience for Undergraduates (REU) Program in Chemical Sensing and Imaging at UMBC

The program seeks to attract a diverse group of students including female students and students from traditionally underrepresented groups in line with our mission at UMBC to offer a welcoming environment to all students and train the next generation of diverse professional workforce in STEM fields. Applicants for this 10-week research experience should be undergraduate students in U.S. academic institutions who are U.S. citizens or permanent residents, pursuing B.Sc. degrees in chemistry and biochemistry or related fields, maintaining a GPA of 3.0 or greater, and are considering applying to graduate school in the chemistry and biochemistry or related fields upon completion of their undergraduate degree.

Application Deadline – February 17, 2017
To learn more and to apply visit
http://reu.umbc.edu

Program benefits include:
• Research experience in leading UMBC laboratories in the area of chemical sensing and imaging.
• A $5,000 stipend, on-campus housing, and social activities
• Professional training workshops.

UMBC takes advantage of its prime location on the Baltimore-Washington corridor to forge links with government, business, and industry. High-tech corporations and laboratories are key partners with the UMBC community.
The Hispanic Physicist. Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to Jorge A. López, jorgelopez@utep.edu. http://www.hispanicphysicists.org/.