

The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

Year 22

March 5, 2018



Carlos Gutierrez is named APS Fellow

Carlos J Gutierrez, Manager of the Surface and Interface Sciences Department at Sandia National Laboratories (NM), has been named APS Fellow of the Forum on Industrial and Applied Physics for “contributions to the understanding of magnetic thin film physics, the development of innovative materials physics education programs, and for research and development leadership in transitioning fundamental materials understanding into a broad range of energy and other national security applications.”

NSHP Congratulates Carlos!



NSF and TSAPS support 6 REU programs

The National Science Foundation will be supporting six Research Experiences for Undergraduates (REU) sites in Texas this summer, which we have conveniently listed on the [TSAPS website](#). These programs will allow undergraduate students to spend about ten weeks this summer performing full-time physics and astronomy research at Texas universities, and include generous stipends, housing, and travel allowances. We encourage interested undergraduate TSAPS members, even those with

no prior research experience, to apply to these programs following the instructions at the REU sites linked to on the [TSAPS website](#).

All TSAPS members should feel free to bring these REU programs to the attention of interested undergraduates. Many of these programs have application deadlines during the month of February, so interested students should submit their applications as soon as possible.

Yale University

Yale University INT's National Nuclear Physics Summer School, June 17-30, 2018



**Wright
Laboratory**

The Wright Laboratory at Yale University will host the [INT's National Nuclear Physics Summer School](#) (NNPSS 2018) this year from June 17-30, 2018 and we hope you or your students

will attend. The program is aimed at graduate students and postdocs who are seeking to explore recent and future directions in the field. Experts from across the nation will deliver in-depth lectures, seminars and tutorials and engage participants in hands-on experimental design. Participants will also each present a poster and tour Brookhaven National Laboratory.

Topics for the **2018 school** include: Hadron Structure, Heavy Ion Physics, Nuclear Structure, Nuclear Astrophysics, Neutrinos, Neutrons and Fundamental Symmetries.

Visit wlab.yale.edu/nnpss2018 for more information, including a link to the application form.

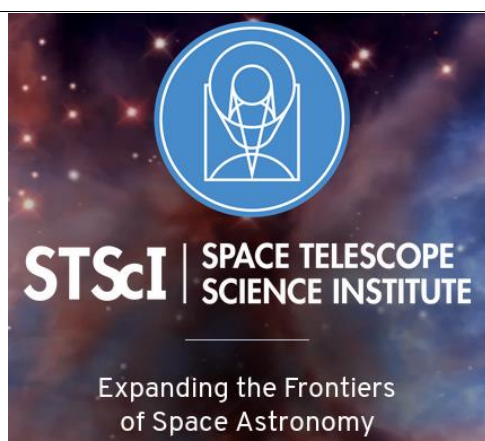


Apply NOW to the Nuclear Engineering Science Laboratory Synthesis Programs Program at Oak Ridge National Lab

Please apply at <https://www.zintellect.com/> by February 28, 2018 for Summer term (must start by June 15 and end on or after August 10, 2018) by September 15, 2018 for Fall term. Current AAS, BS, MS, and PhD students Majors related to Engineering, Science and Mathematics

- First Year (Freshman) - \$529/week
- Second Year (Sophomore) - \$593/week
- Third Year (Junior) - \$653/week
- Fourth Year (Senior) - \$726/week
- Master's Student - \$863/week
- Ph.D. Student - \$935/week
- Class status is defined by the college/university and is based on completion prior to ORNL report date.
- Travel/Housing assistance (if eligible)
- Professional development activities
- Minimum GPA – 3.0/4.0
- Open to U.S. and Eligible International Citizenship

Visit <http://www.ornl.gov> or contact NESLS@ornl.gov for more information!



Leadership Opportunities at the Space Telescope Science Institute

The Space Telescope Science Institute (STScI), operated by the Association of Universities for Research in Astronomy (AURA), is a multi-mission science operations center for NASA's flagship observatories. Our world-class astronomical research center is based on the Johns Hopkins University Homewood campus in [Baltimore, Maryland](#).

Our work focuses on the scientific discoveries of NASA's Hubble Space Telescope; the James Webb Space Telescope, which will launch in 2019; and the Wide Field Infrared Survey Telescope (WFIRST), which will launch in the mid-2020s. To keep pace with the demands of a multi-mission organization, opportunities at STScI have grown exponentially.

We are reaching out to a network of diversity and inclusion advocates in hopes of communicating several available positions of leadership in our engineering divisions. We are committed to building the workforce of the future and, to do so, we understand that we have to pursue diversity at every level. Listed below is more information about STScI and the opportunities available. We hope that you will forward these opportunities to your own networks. Our application deadline for these positions is March 1st, 2018. With your assistance, we will continue to strive to build a team of individuals with diverse talents, backgrounds, expertise, and perspectives who work together to achieve excellence in astronomical discovery.

About STScI:
<http://www.stsci.edu/>

Leadership Opportunities
in Engineering (Heads of
Engineering):
<https://rn11.ultipro.com/>

More Opportunities at
STScI:
<http://www.stsci.edu/>



Nuclear Forensics Undergraduate Summer School Program now accepting applications

The Nuclear Forensics Undergraduate Summer School (NFUSS) is a six-week course, sponsored by the [Department of Homeland Security](#) (DHS), designed to provide undergraduate students with comprehensive, experimental, hands-on training in topics essential to nuclear forensics. This program will be held [June 11 to July 20, 2018](#), at the University of Utah in Salt Lake City. Through laboratory experiments and complementary lectures, students are introduced to the practice and technical aspects of nuclear forensic science. The program will also include a field trip to [Oak Ridge National Laboratory](#) (ORNL).

Nuclear forensics involves examining materials recovered from radiological and nuclear events of an illicit or hostile nature in order to determine their character and origin. Nuclear forensics conclusions, combined with information from law enforcement investigation and intelligence, help identify those responsible for planned and actual attacks.

Nuclear forensics supports the U.S. Government commitment to identify and hold fully accountable any state or non-state actor that willfully supports, enables, or engages in hostile weapons of mass destruction activities that threaten the United States or our allies and partners.

Important Dates

- * Application deadline: **[February 28, 2018](#)**
- * Reference received deadline: [March 9, 2018](#)
- * Candidates notified of selection: [March 1-30, 2018](#)
- * Program dates: [June 11 to July 20, 2018](#)
- * Field trip to Oak Ridge National Laboratory: Tentative date of [July 11, 2018](#)

APPLY HERE: <https://www.zintellect.com/>, if you have any questions, visit <https://orise.ornl.gov/> or contact NFUSS@ornl.gov.



Apply today for a Geospatial Analysis Fellowship

A postgraduate research project and developmental opportunity is currently available at the U.S. Department of Transportation. The appointment will be served within the Bureau of Transportation Statistics (BTS) in Washington, D.C., as a Geospatial Analysis Fellow.

This is a unique opportunity that will allow you to explore opportunities to advance geospatial data resources that are appropriate for statistical analysis. You will build new data sets for BTS to use in analysis and publish to the world.

You will be using, adapting and transforming data and collection processes originally designed for other ends to provide new data for transportation analysis. You will learn to wrangle automobile, plane and ship probe data feeds into meaningful geospatial datasets, and extract data from remote sensing operations. You will learn to design and build innovative, new data sets that capture emerging areas of transportation.

Award Details: Stipend: \$70,000, Professional Development: \$2,500, Relocation: \$2,000, Health Insurance Allowance: \$3,000

Qualifications:

- Post-Master's in a related field within the last five years
- Experience with ESRI suite of products (ArcGIS Desktop, ArcGIS Server, ArcSDE, ArcObjects, JTX/Workflow Manager)
- Knowledge and use of industry standard database tools and languages including standard SQL Oracle/Microsoft/Postgres Relational Databases and geodatabase extensions to relational databases, SQL.

To apply, please visit <https://www.zintellect.com/>. The USDOT is actively reviewing applications and is looking to fill positions as soon as qualified applicants are identified. If you have questions, send an email to USDOT@orau.org.

Evaluation Fellowship Program - Applications 2018 - Centers for Disease Control and Prevention

The Centers for Disease Control and Prevention (CDC) seeks applicants for the 2018 class of the [CDC Evaluation Fellowship Program](#). Fellows are guided under the leadership of CDC's Chief Evaluation Officer; they will be matched with CDC host programs in Atlanta, Georgia, to focus on program evaluation activities for/with those programs. Application deadline for Fellows is April 13th, with Fellows starting in mid-August.

About the Fellowship

- The CDC Evaluation Fellowship Program aims to expand the capacity of CDC programs to conduct evaluation and increase its usefulness and impact.
- The Fellowship is intended to be a two-year program, with the second year contingent on satisfactory performance and availability of funds.

About the CDC Evaluation Fellows

- Experience: Fellows are PhD or master's degree professionals with backgrounds in evaluation, behavioral and social sciences, public health, and other disciplines relevant to CDC's work. Successful applicants also typically have significant experience in applied evaluation projects.
- Placement: Fellows are based in Atlanta working within one of CDC's programs.
- Funding: Fellows receive a monthly stipend depending on education level and experience and, unlike many fellowships; CDC Evaluation Fellows receive substantial financial support for their training and professional development, and a supplement to offset health insurance costs.

Applying for the Fellowship

- Applicants for the Fellowship go through an extensive selection process, including interviews with potential host programs, culminating in CDC host programs and Fellows matched based on mutual interest.
- Candidates must have received their qualifying degree within the past 5 years.
- **Qualifying degree must be completed by end of Spring semester of the year candidate is applying and on transcript by June.**

- Fellows are brought on through the [Oak Ridge Institute for Science and Education](#) (ORISE) and are not considered full-time employees of CDC during the fellowship.
- This is a training fellowship so Fellows do not become employees of CDC.
- **Non-U.S. citizens are eligible to apply.** For more information, see the [ORISE Guidelines for Non-U.S. Citizens](#).
- The deadline for applying to the CDC Evaluation Fellowship Program is **April 13, 2018, 1 pm Eastern Time**.
- To apply, create a profile, complete a short survey, and upload your CV/resume here: <https://www.zintellect.com/>.

Timeline

- February 28: Informational Webinar
- April 13: Application deadline
- Late April: We will select and notify finalists
- April 26-May 29: Host programs interview finalists
- Early June: Fellow selection and notification
- August 13: Selected Fellows must start by this date

Visit our information page to learn more about the [CDC Evaluation Fellowship Program](#). Go to our main index page to learn more about [Program Evaluation](#) at CDC. Email us directly at CDCEval@cdc.gov



Office of
Science

Science Graduate Student Research 2018

The Department of Energy's (DOE) Office of Science is pleased to announce that the Office of Science Graduate Student Research (SCGSR) program is now accepting applications for the 2018 Solicitation 1. **Applications are due 5:00pm Eastern Time on Tuesday, May 15, 2018.**

Detailed information about the program, including eligibility requirements and access to the online application system, can be found at: <https://science.energy.gov/wdts/scgsr/>.

The SCGSR program supports supplemental awards to outstanding U.S. graduate students to conduct part of their graduate thesis research at a DOE national laboratory/facility in collaboration with a DOE laboratory scientist for a period of 3 to 12 consecutive months—with the goal of preparing graduate students for scientific and technical careers critically important to the DOE Office of Science mission.

The SCGSR program is open to current Ph.D. students in qualified graduate programs at accredited U.S. academic institutions, who are conducting their graduate thesis research in targeted areas of importance to the DOE Office of Science. The research opportunity is expected to advance the graduate students' overall doctoral thesis/dissertation while providing access to the expertise, resources, and capabilities available at the host DOE laboratories/facilities. The supplemental award provides for additional, incremental costs for living and travel expenses directly associated with conducting the SCGSR research project at the DOE host laboratory/facility during the award period.

The Office of Science expects to make approximately 50 awards in 2018 Solicitation 1 cycle, for project periods beginning anytime between October 29, 2018 and March 4, 2019.

For any questions, please contact the SCGSR Program Manager, Dr. Ping Ge, at sc.scgsr@science.doe.gov.

30th International Conference on Science and Technology of Complex Fluids
San Luis Potosi, Mexico June 18 - 22, 2018.



The **30th International Conference** on Science and Technology of Complex Fluids (ICSTCF), will be held in **San Luis Potosi, Mexico** from June 18 to June 22, 2018.

This conference has been organized since 1998 with the idea of gathering scientists

interested in topics related with soft condensed matter. As this conference is celebrating its 30th anniversary, this year the main topic of the event is about the past, present and future of complex fluids community. Our aim is to take advantage of the experience from the past to build a bright and promising future.

The conference consists of 17 speakers, a series of short talks selected from the registered participants and a poster session. Please consult the list of confirmed speakers.

For further information and to register, please visit the meeting's **[web page](#)**

Affordable Colleges Online

At Affordable Colleges Online, we publish guides that help students make informed choices about higher education and paying for school. Our editors have published two guides in particular that I think will be of interest to you and your readers:

[Financial Aid for STEM Students](#)

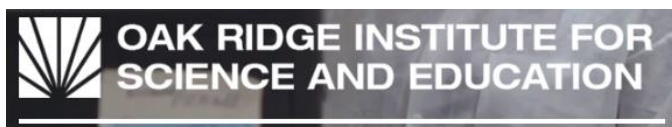
This guide has a list of scholarships and tips for current and prospective STEM students, to help make the cost of college more affordable. The guide also includes a section specifically for women and other minorities interested in STEM fields.

[College Success for Women in STEM](#)

There's a lot of information recently about the underrepresentation of women in STEM professions. This guide is a great read for female students at all levels who are inspired to pursue a scientific or technical career. It provides a map of specific job titles and popular degrees in STEM fields, spotlights community support organizations, and features interviews with two accomplished women in research and teaching.

Our team believes these guides can make a big difference if they are shared with enough students or their influencers.

About us: Affordable Colleges Online provides community resources and tools related to higher education with an eye on affordability and accreditation. You can write to us at P.O. Box 77022, San Francisco, CA 94107 or visit our privacy policy. If you do not wish to receive affordable college education resources, please visit us [here](#). This message is intended for audiences in the United States only; if this email has reached anyone outside of the United States, please let us know and we will remove you from our sending list.



Radiation Exposure: What Not to Fear” competition.

Radiation Exposure: What Not to Fear

Undergraduate students are invited to participate in the “Radiation Exposure: What Not to Fear” competition. For the opportunity to earn a \$5,000, \$3,000, or \$1,000 scholarship, undergraduates are asked to develop a communication proposal that informs citizens about radiation in our world.

For more information on this competition, please visit the ORISE website at <https://orise.ornl.gov/stem/>. The competition deadline is **Thursday, March 29**.

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Accepting applications 2018

The Intelligence Community (IC) Postdoctoral Research Fellowship Program offers scientists and engineers from a wide variety of disciplines unique opportunities to conduct research in a wide range of topics relevant to the Intelligence Community.

The research is conducted by the postdocs, while working in partnership with a research advisor and collaborating with an advisor from the Intelligence Community. In partnership with the research advisor, the postdoc composes and submits a technical proposal that responds to a research opportunity identified at <https://www.ornl.gov/>.

Award Details:

- Annual stipends range from \$75,000 to \$79,000, depending on research location.
- Annual travel budget of up to \$6,000
- Appointments for two years, and option to extend for a third year
- Host institutions receive an annual laboratory budget of up to \$5,000.
- Research advisors receive a \$10,000 stipend and an annual travel budget of up to \$2,000.

Postdoc Eligibility: U.S. citizenship required; Ph.D. received **within five years** of the application deadline

Application Deadline: **March 12, 2018**

For additional program information, please visit <https://www.ornl.gov/>.

Jobs

Please visit our Job Board (<http://www.hispanicphysicists.org/JobBoard.html>) to see more information about these and other opportunities.

Opportunity	Deadline
Assistant professor of physics with an experimental background in nanoscience at Howard U.	Screening will begin January 24 th , 2018
PhD student in Experimental Studies of Exotic Nuclei at the division of Subatomic and Plasma Physics, Department of Physics at Chalmers University of Technology, Sweden.	March 18 th , 2018

The Hispanic Physicist. Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to Miguel Castro-Colin (m.castrocolin@gmail.com).
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