EAPS WEEKLY NEWSLETTER
16 Oct. 2017 | EAPS on Facebook | EAPS on Twitter

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DEPARTMENT NEWS

INSIDE EAPS NEWSLETTER
Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here: https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS COLLOQUIA
Chanh Kieu
Indiana University
October 19, 2017
3:30 PM / HAMP 1252
Host: Dan Chavas

http://www.eaps.purdue.edu/
NEW UNDERGRADUATE ENVIRONMENTAL AND SUSTAINABILITY STUDIES CERTIFICATE

The College of Liberal Arts and Discovery Park’s Center for the Environment are pleased to announce a new undergraduate Environmental and Sustainability Studies Certificate Program (ESS). This innovative new program strengthens Purdue’s commitment to advancing knowledge and providing transformative education for students interested in confronting today’s grand environmental and sustainability challenges.

The ESS program draws on the teaching and research strengths of faculty from across the campus. Highly interdisciplinary, ESS is designed to enable students to meet the increasingly diverse and complex demands of today’s environmental challenges. Students take courses in three main categories that span multiple disciplinary approaches: 1) Social, Cultural, Economic, and Political dimensions, 2) Stewardship, Conservation, and Management dimensions, and 3) Science, Engineering, and Technological dimensions.

The program brings faculty and students together from the Colleges of Science, Agriculture, Engineering, Liberal Arts, Health and Human Sciences, and Purdue Polytechnic Institute. Addressing worldwide concerns about climate change, environmental preservation, sustainability, food and water security, environmental justice, environmental ethics, environmental policy, ecotourism, and more, ESS prepares Purdue’s students for careers in education, government, industry, business, and research. The ESS certificate is available to undergraduates in any major and from any college.

Come join them this Tuesday, October 17 from 6pm-7pm in WALC B066 for the ESS Fall Callout!

We’ll have free food and lots of details for students interested in becoming part of this exciting new program.

IMAGING FELLOWSHIP OPPORTUNITY AT HARVARD UNIVERSITY

Harvard University is seeking life and physical scientists with an interest in imaging to develop innovative imaging technologies, lead biological investigations using these technologies, or both, for an exciting position as a John Harvard Distinguished Science Fellow (JHDSF).

Fellows will work as independent researchers; receive funding to run a small research group; and will be appointed for a three-year term (two year extension after review).

Candidates should have recently completed a PhD in Chemistry, Physics, Biology, Engineering or related areas, or should complete a PhD by the time their appointment begins.

Application Deadline is October 29, 2017

Learn more and apply
https://academicpositions.harvard.edu/postings/7801

http://www.eaps.purdue.edu/
UNIVERSITY OF OKLAHOMA
POST-DOCTORAL RESEARCH ASSOCIATE

The University of Oklahoma is looking for a PhD student or postdoc on a VORTEX-SE/Warn-on-Forecast project involving convective-scale data assimilation and prediction.

Please see attachment for additional information.

OFFICE OF UNDERGRADUATE RESEARCH (OUR) SCHOLARSHIP

The Office of Undergraduate Research (OUR), in partnership with the colleges, announces a research scholarship program to recognize undergraduate student engagement in original research, scholarship, or creative work under the guidance of a Purdue faculty or approved research mentor.

Please find the attached flyer announcing the OUR Scholarship program for Spring 2018. The application opens today and the deadline is Friday, October 20.

An applied research project, which is administered by the Oak Ridge Associated Universities (ORAU), is available at the Technical Support Center (TSC) of the Office of Water, Office of Ground Water and Drinking Water, U.S. Environmental Protection Agency, in Cincinnati, Ohio. Under the guidance of a mentor, the participant will gain experience and educational benefits from this project looking for unregulated contaminants in drinking water.

DOWNUNDER GEOSOLUTIONS (DUG)

Ali Bakir, an EAPS alum, works for DownUnder Geosolutions (DUG), a geophysical service company based in Houston, TX. He and Ms. Phoebe Goh will be on campus October 31 for an Open House and to conduct interviews on November 1, 2017. DUG is hiring MS and PhD students with geophysics, physics, electrical engineering, or math degrees, or similar degrees with strong signal processing skills. They are mainly interested in students graduating in 2018 (see attached flyers).

On the evening of Tuesday, October 31, at 5:15pm in Room 2201, DUG will have an Open House to talk about the company, available job opportunities, and answer any questions you may have. Food will be provided.

Therefore, please RSVP to Kathy Kincade (kkincade@purdue.edu) no later than October 20, if you plan to attend. Please provide your name, department, degree (MS or PhD), expected graduation date, e-mail address, and whether or not you would like an interview. Interested students who would like an interview should bring a copy of their resume and all official/unofficial transcripts to the presentation.

Interviews will be conducted on Wednesday, November 1 in Room 2173. Students who do not require a work-visa sponsorship are encouraged to reserve an interview time. Please see Kathy Kincade (Room 2169/HAMP) to sign up for an interview. They will only be in the department during the morning of the 1st, so they may not be able to interview everyone interested. That is why they ask that you bring your resume and transcripts to the open house.

http://www.eaps.purdue.edu/
TENURE-TRACK ASSISTANT PROFESSOR IN SEDIMENTARY GEOLOGY, TEXAS TECH UNIVERSITY

The Department of Geosciences at Texas Tech University invites applications for a tenure-track Assistant Professor position in the broader field of sedimentary geology to begin in fall 2018. Applicants who demonstrate skills in carbonate sedimentology, paleoclimatology, basin analysis, or micropaleontology will be preferred. The ideal candidate will employ a combination of field, laboratory and/or computational techniques and be willing to participate in the development of petroleum-relevant research and teaching programs in the university. The department has a broad array of in-house analytical equipment; interested applicants should visit the department website [http://www.geosciences.ttu.edu/geo.php](http://www.geosciences.ttu.edu/geo.php).

The successful candidate is expected to establish an innovative, externally funded academic research program, teach and advise graduate and undergraduate students, and provide service to the department, college, university and the community. A PhD in Geology or a closely related field is required at the time of appointment.

Applicants must first visit the TTU employment website at [http://jobs.texastech.edu](http://jobs.texastech.edu). Once there, go to “Search Jobs”, search for requisition number 11599BR, and provide the required information. Afterwards, applicants must submit a letter of application, curriculum vitae, a statement of teaching and research interests, names and contact information (including e-mail address) of at least three professional references. These documents must be uploaded to the employment website. Inquiries regarding the position should be sent to dustin.sweet@ttu.edu.

Review of applications will begin November 27, 2017, and will continue until the position is filled.

PRESIDENT HARRY S. TRUMAN FELLOWSHIP IN NATIONAL SECURITY SCIENCE AND ENGINEERING

Sandia National laboratories is seeking applicants for the President Harry S. Truman Fellowship (in National Security Science and Engineering). Candidates must meet the following requirements, to apply:

- Ph.D. awarded within the past three years at the time of application or completed Ph.D. requirements by commencement of appointment; with strong academic achievement and evidence of exceptional technical accomplishment, leadership, and ability to team effectively
- Candidates must be seeking their first national laboratory appointment (no previous postdoctoral appointments at a national laboratory)
- Ability to obtain a DOE “Q” clearance, which requires US citizenship

For more information, please see the attached flier and/or visit—[http://sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html](http://sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html)

BIRTHDAYS

Dev Niyogi  Oct. 18
Kathy Kincade  Oct. 24

[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at [http://www.eaps.purdue.edu/news/newsletters.html](http://www.eaps.purdue.edu/news/newsletters.html) and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuem (fmcquem@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: [http://www.eaps.purdue.edu/resources/information_technology/index.htm](http://www.eaps.purdue.edu/resources/information_technology/index.htm)

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at [http://www.EAPS.purdue.edu/events-calendar.html](http://www.EAPS.purdue.edu/events-calendar.html)
Aug. 22  Ki-Hong Min, Kyungpook National University  Host: Sun  
**Tuesday, 4:00PM, Room 2201/HAMP**

Aug. 24  Roland Stull, University of British Columbia  Host: Tanamachi

Aug. 31  Tim Cronin, MIT  Host: Chavas

Sept. 7  Vince Agard, MIT  Host: Chavas

Sept. 14  Amir Allan, University of Utah  Host: Ridgway

Sept. 21  Ed Harvey, U.S. National Park Service, Water Resources Division  Host: Frisbee

**Cancelled**

Sept. 28  David Minton, Purdue University

Oct. 5  Devon Orme, Montana State University  Host: Ridgway

Oct. 12  Cliff Johnston, Purdue University

Oct. 19  Chanh Kieu, Indiana University  Host: Chavas

Oct. 24  Zhou Lyu, PhD candidate  Advisor: Zhuang  
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct. 26  Julie Castillo-Rogez, Jet Propulsion Laboratory, NASA  Host: Minton

Oct. 31  Tong Yu, PhD candidate  Advisor: Zhuang  
**Tuesday, 4:00PM, Room 2201/HAMP**

Nov. 2  Scott Collis, Argonne National Laboratory  Host: Tanamachi

Nov. 9  Jack Kaye, Earth Science Division, NASA  Host: Zhuang

Nov. 16  Xiangdong Zhang, University of Alaska, Fairbanks  Host: Zhuang

Nov. 30  Rossella Guerrieri, CREAF, Univ. Autònoma de Barcelona  Host: Michalski

Dec. 7  Sarah Feakins, University of Southern California  Host: Welp/Huber
Tropical Cyclone Intensity

Chanh Kieu
Indiana University

Intensity is a key measure of tropical cyclones (TCs). Understanding the characteristics of TC intensity is not only of great importance for operational forecasting, but also critical to examining the TC-climate relationship. In this talk, I will present a theoretical framework that allows us to study TC intensity from the perspective of time-dependent dynamics. This framework is based on the fundamental scales of TCs, and can be used to derive several important properties of TC intensity including the maximum potential intensity equilibrium, the stability of the maximum intensity, or consistency between TC feedback and intensity. A recent extension of this framework will be also presented, which leads to an explicit dependence of the TC maximum intensity on tropospheric stratification beyond the traditional maximum potential intensity framework. This dependence has significant implication to the TC long-term intensity variability.

Thursday, October 19, 2017
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/ HAMP
Environmental and Sustainability Studies (ESS)

A New Program Offered by Discovery Park’s Center for the Environment and the College of Liberal Arts

A 15-Credit Program Open to All Majors in All Colleges

Environmental and Sustainability Studies is a new, interdisciplinary undergraduate certificate administered by the Center for the Environment and the College of Liberal Arts. The Certificate gives students working in multiple disciplines a broad exposure to how environmental and sustainability challenges and solutions are conceived, represented, and researched in the Humanities, Social Sciences, Agriculture, and STEM disciplines. The program introduces students to a wide range of environmental issues from diverse perspectives so that they can more effectively comprehend and evaluate today’s environmental and sustainability challenges.

This certificate is designed to help students in all majors better understand complex environmental issues.

"I have never had a program structured this way, and it has helped me understand what working in the real world might be like, and beyond that has led me to better understand complex environmental issues."—ESS Student
GEO-JUNKIES, TECH-HEADS AND MATH WIZARDS LOOKING FOR CAREER OPPORTUNITIES?

Discover the challenging career opportunities available in geophysics. Please see Kathy Kincade (Room 2169D/HAMP) to sign up for an interview.

Date: Wednesday, November 1st 2017
Time: 8.00am – 1.00pm
Venue: Room 2173 HAMP Bldg

Students who do not require a work-visa sponsorship are encouraged to reserve an interview.

**Please bring along a copy of your CV and all official/unofficial transcripts.**

Join TeamDUG

DUG
DownUnderGeoSolutions
GEO-JUNKIES, TECH-HEADS AND MATH WIZARDS LOOKING FOR CAREER OPPORTUNITIES?

Discover the challenging career opportunities available in geophysics.

Join us at our information session!

**Date:** Tuesday, October 31st 2017
**Time:** 5.15pm - 6.30pm
**Venue:** Room 2201 HAMP Bldg

Please RSVP to Kathy Kincade (kkincade@purdue.edu) no later than October 20 if you plan to attend the presentation.
<table>
<thead>
<tr>
<th>Event</th>
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<tr>
<td>Final Exams (6th-12th)</td>
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<td>Faith Christian Preschool EAST Christmas Program</td>
<td>10-12</td>
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<td>Elementary Christmas Programs (K5-2nd; 3rd-5th)</td>
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<td>MS/HS Christmas Program (6th-12th)</td>
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<tr>
<td>Faith Christian Preschool WEST Christmas Program</td>
<td>12-14</td>
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<tr>
<td>Lafayette Christmas Parade</td>
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<td>Preschool Childcare OPEN</td>
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<td>Christmas Break - NO SCHOOL (K3-12th); Preschool Childcare CLOSED</td>
<td>25-30</td>
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<td>Faith Chorale Tour</td>
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<td>Fall Athletic Practices Begin</td>
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<td>Faith Christian Preschool EAST Picture Retakes</td>
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<td>Varsity Girls/Boys Soccer Sectionals</td>
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<td>Grandparents' Day (K5-5th; 8:00-11:30 a.m.)</td>
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<td>Cross Country Sectionals</td>
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<td>Volleyball Sectional 11-12</td>
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<td>PSAT (All 10th and 11th Grade)</td>
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<td>Varsity Girls Soccer Regionals</td>
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<td>1st Quarter Ends</td>
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<td>Varsity Girls/Boys Soccer Regionals</td>
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<td>Cross Country Regionals</td>
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<td>2nd Quarter Begins</td>
<td>15-16</td>
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<td>HS Girls Basketball Practice Begins</td>
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<td>Report cards home</td>
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<td>Fall Concert (6th-12th)</td>
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<td>Volleyball Region</td>
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<td>Faith Christian Preschool WEST Pictures (K4)</td>
<td>23-24</td>
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<td>Parent-Teacher Conferences</td>
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<td>Parent-Teacher Conferences</td>
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<tr>
<td>School Picture Retakes (K5-12th)</td>
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<tr>
<td>Fall Break - NO SCHOOL (K4-12th); Preschool Childcare OPEN</td>
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<td>Faith Chorale Tour</td>
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<tr>
<td>Wrestling Practice Begins</td>
<td>30-31</td>
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<tr>
<td>Faith Christian Preschool EAST Picture Retakes</td>
<td>31-31</td>
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*Calendar is subject to change. Last updated June 8, 2017*
# Faith Christian School
## 2017-2018 School Event Calendar

*Calendar is subject to change. Last updated June 8, 2017*

### January 2018

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1-2 Mon-Tues  Preschool Childcare CLOSED
3-5 Wed-Fri  Preschool Childcare OPEN
8  Mon  K4, K5-12th Grade Resumes, 2nd Semester Begins
B-12 Mon-Fri  Elementary Reading Extravaganza
9  Tues  K3 Resumes
15 Mon  MLK Jr. Day - NO SCHOOL (K4-12th); Preschool Childcare OPEN (possible snow make-up)
19  Fri  Faith Christian Preschool EAST and WEST Movie Night
22-26 Mon-Fri  Spirit Week
26  Fri  Homecoming
27  Sat  ISSMA Solo and Ensemble - Vocal and Piano (Required)
Wrestling Sectionals
30  Tues  Faith Christian Preschool EAST and WEST Parent Night (Early 3's and K3)
30-31 Tues-Wed  Girls Basketball Sectionals
31  Wed  Re-enrollment Begins (K3-11th)

### February 2018

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2-3 Fri-Sat  Varsity Girls Basketball Sectionals
3  Sat  ISSMA Solo and Ensemble - Wind, Percussion, and Strings (Optional)
Wrestling Regionals
9  Fri  Re-enrollment Ends
9  Fri  Progress Report Period Ends
10  Sat  Varsity Girls Basketball Regionals
12  Mon  Track Practice Begins
12-16 Mon-Fri  Winter Break [BCCTC]; NO SCHOOL (K3-12th); Preschool Childcare OPEN
20  Tues  Faith Christian Preschool EAST and WEST Open House
21  Wed  Progress Reports Home
23  Fri  Daddy/Daughter Fun Night (1st-5th)
26-March 2  Mon-Fri  ISTEPs Part 1 (3rd-8th, 10th)
27-28 Tues-Wed  Varsity Boys Basketball Sectionals

### March 2018

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1-2 Thurs-Fri  ISTEPs Part 1 (3rd-8th, 10th)
2  Fri  Faith Christian Preschool WEST Grandparents' Day
2-3 Fri-Sat  Varsity Boys Basketball Sectionals
5  Mon  Softball Practice Begins
5-9 Mon-Fri  ISTEPs Part 1 (3rd-8th, 10th)
9  Fri  Friendship Celebration
Faith Christian Preschool EAST Grandparents' Day
10  Sat  Varsity Boys Basketball Regionals
12  Mon  Baseball and Golf Practices Begin
12-15 Mon-Thurs  ISTEP-3 Test (3rd Grade)
16  Fri  3rd Quarter Ends
17  Sat  ISSMA Jr. High Choir and Band
19  Mon  Faith Christian Preschool EAST, Preschool WEST, and K5 Open House
21  Wed  Report Cards Home
22-23 Thurs-Fri  School Play
26-30 Mon-Fri  Spring Break - NO SCHOOL (K3-12th); Preschool Childcare OPEN (possible snow make-up)

### April 2018

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3  Mon, Wed, Fri  AP Testing
7, 9, 11  AP Testing
10  Thurs  Elementary Spring Programs (K5-2nd; 3rd-5th)
14, 15  Mon-Wed  AP Testing
15  Tues  Girls Track Sectionals
17  Thurs  Boys Track Sectionals
18  Fri  Eagle Jg-A-Thon/Food Truck 5K/Eagle Fair
21-23 Mon-Wed  Final Exams (6th-12th)
21-26 Mon-Sat  Softball Sectionals
22  Tues  Girls Track Regionals
23-26, 28 Wed-Sat, Mon  Baseball Sectionals
24  Thurs  Last Day of School (K3, K5-5th) - No After School Care
    Food Christian Preschool EAST Spring Program
    Kindergarten Promotion 7:00 p.m. (all K5 dismissed at 11:30 a.m.)
    Boys Track Regionals
25  Fri  Last Day of School (K4, 6th-12th)
    4th Quarter/2nd Semester Ends
26  Sat  Senior Graduation 10:00 a.m.
28  Mon  Memorial Day - Preschool Childcare CLOSED
29  Tues  Softball Regionals

### May 2018

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1-4 Tues-Fri  ISTEPs Part 2 (3rd-8th, 10th)
3  Thurs  Faith Christian Preschool EAST Spring Program
7, 9, 11  AP Testing
10  Thurs  Elementary Spring Programs (K5-2nd; 3rd-5th)
14, 15  Mon-Wed  AP Testing
15  Tues  Girls Track Sectionals
17  Thurs  Boys Track Sectionals
18  Fri  Eagle Jg-A-Thon/Food Truck 5K/Eagle Fair
21-23 Mon-Wed  Final Exams (6th-12th)
21-26 Mon-Sat  Softball Sectionals
22  Tues  Girls Track Regionals
23-26, 28 Wed-Sat, Mon  Baseball Sectionals
24  Thurs  Last Day of School (K3, K5-5th) - No After School Care
    Food Christian Preschool EAST Field Day, Awards Day (1st-5th)
    Kindergarten Promotion 7:00 p.m. (all K5 dismissed at 11:30 a.m.)
    Boys Track Regionals
25  Fri  Last Day of School (K4, 6th-12th)
    4th Quarter/2nd Semester Ends
26  Sat  Senior Graduation 10:00 a.m.
28  Mon  Memorial Day - Preschool Childcare CLOSED
29  Tues  Softball Regionals

### June 2018

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2  Sat  Baseball Regionals
Oak Ridge Institute of Scientific Education (ORISE)
Internship Opportunity

U.S. Environmental Protection Agency (Cincinnati, OH)
Office of Water

General
An applied research project, which is administered by the Oak Ridge Institute for Science and Education, Department of Energy, is available at the Technical Support Center (TSC) of the Office of Water, Office of Ground Water and Drinking Water, U.S. Environmental Protection Agency, in Cincinnati, Ohio. Under the guidance of a mentor, the participant will gain experience and educational benefits from this project performed at TSC.

Fellowship Research Description
The Safe Drinking Water Act (SDWA), as amended in 1996, requires the U.S. EPA to monitor up to 30 emerging contaminants in drinking water every five years. The U.S. EPA implements this requirement through the Unregulated Contaminant Monitoring Rule (UCMR). The data assists the U.S. EPA Administrator in determining whether to regulate an emerging contaminant. TSC implements the UCMR program and manages the key components of this complex regulatory effort. Currently, implementation of the fourth UCMR (UCMR 4) takes place from 2017 through 2021. TSC anticipants the development of the fifth UCMR (UCMR 5) will begin in 2018.

The participant will research the quality control (QC) data trends of newly developed analytical methods. This information lets the U.S. EPA evaluate the accuracy and precision of the methods with nationwide drinking water occurrence data from several different laboratories. The participant will also develop problem solving skills through involvement in several areas of the UCMR program and by encountering complex issues that arise during the implementation of an environmental rule. Additional research and project opportunities include:

- Learning about the SDWA, the UCMR program and the UCMR data system.
- Researching past UCMR data systems, analyzing the data elements, applying those relationships to the current cycle, and developing a database.
- Analyzing, reviewing and evaluating environmental monitoring data in a database, including contaminant occurrence and exposure estimates, and responding to technical issues associated with these data.
- Writing a formal paper and presenting the information gathered from researching the QC data trends of the analytical methods from the third UCMR (UCMR 3).
- Learning how to perform on-site laboratory and data audits for newly developed analytical methods, and making data reporting easier.
- Participating on the UCMR 5 Workgroup, learning about methods development and the regulatory development process.
Eligibility
- Preference will be given to Environmental Science majors or related fields.
- Individuals must have at least a Bachelor degree by the start date.
- Individuals must have received their degree within three years of the start date.
- Candidates should possess good oral and written communication skills.
- Candidates must have strong technology skills and be skillful in Microsoft Office, specifically Word, Excel and PowerPoint. Preference will be given to those who also have some skill in database development and/or management (Microsoft Access or other).
- The participant will be selected based upon academic records, recommendations, research interests, compatibility of interests with research programs/projects at TSC, and interview(s) with TSC staff.
- The program is open to all qualified individuals without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a Vietnam era or disabled veteran. U.S. citizenship or lawful permanent resident status is preferred (but can also hold an appropriate visa status, however, an H1B visa is not appropriate). The intern does not become a U.S. EPA employee.

Contact Information
Brenda Parris
U.S. EPA, Office of Ground Water and Drinking Water (OGWDW)
Technical Support Center (MS-140)
26 W. Martin Luther King Dr.
Cincinnati, Ohio 45268
Phone: (513) 569-7961
Email: parris.brenda@epa.gov

Deadline & Submission Requirements
- Information required in application – such as: resume, cover letter, copy of official transcripts, and references or faculty endorsement.

Additional Information
- Please see the UCMR Website for more information https://www.epa.gov/dwucmr
- The appointment is for full-time research that must be conducted at TSC in Cincinnati, Ohio.
- Anticipated starting stipend is between $42,261 and $74,965. The participant will receive a monthly stipend based upon educational level and prior experience.
- The appointment is for one year and may be renewed yearly for an additional three to four years upon recommendation of TSC.
- The participant must show proof of health insurance or must purchase it through ORISE.
- The selected candidate must submit official transcripts from all schools before the start date.
OUR Scholarship Announcement:
Spring 2018

The Office of Undergraduate Research (OUR), in partnership with the colleges, announces a research scholarship program to recognize undergraduate student engagement in original research, scholarship, or creative work under the guidance of a Purdue faculty or approved research mentor. The scholarship is in the amount of $500 for the Spring 2018 semester and is non-renewable.

Student Qualifications
- Must be enrolled full-time in an undergraduate degree-seeking program in good academic standing at the Purdue University – West Lafayette campus (includes PharmD students who have not been awarded a bachelors degree)
- Preference given to students with a cumulative GPA of 2.75 or above

Program Components
1. Research progress and reflection report at the end of each semester
2. Research dissemination through either oral paper presentation or research poster at the Purdue Undergraduate Research Conference on April 10, 2018
3. Attendance at three approved seminars on research or research-related topics

Application
1. Student information form
2. Project information
4. Students will be notified no later than Friday, December 15, 2017

Apply online at http://bit.ly/OURScholarship
DEADLINE is Friday, October 20, 2017 at 11:59pm

Questions? Contact the Office of Undergraduate Research
https://www.purdue.edu/research/Ugrad/
Email: ugresearch@purdue.edu | Office: 134 Duhme Hall | Phone: (765) 494-6503
University of Oklahoma Post-Doctoral Research Associate

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Post-Doctoral Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The Post-Doc will contribute to NSSL’s Warn-on-Forecast (WoF) and Verification of the Origins of Rotation in Tornadoes Experiment – Southeast (V-SE) programs.

Background:
The vision of the WoF program is to develop a probabilistic storm-scale, ensemble-based forecast system with the goal of increase warning lead times for threats related to severe and hazardous convective weather, e.g., tornadoes, large hail, damaging winds, and flash floods. Prediction of severe storms can be particularly challenging in the SE U.S.; this is one motivation for the V-SE program. The low-CAPE, high-shear regime common in the SE promotes smaller storm updrafts that are poorly resolved in current models. Coarse model resolution also limits forecasts of fine-scale planetary boundary layer (PBL) processes important to storm initiation and evolution. This motivates exploration of the impact of finer model resolution on storm prediction in the SE U.S. Toward that end, scientists at the Earth System Research Laboratory Global Systems Division (GSD) are developing a scale-aware PBL scheme to better leverage finer model grids.

Responsibilities:
The incumbent will use EnKF data assimilation to generate analyses and probabilistic short-range forecasts of convective events; collaborate with NOAA Storm Prediction Center forecasters to evaluate the impact of reducing model grid spacing from 3 km to 1 km; collaborate with GSD scientists to evaluate the impact of scale-aware PBL physics; publish the results in peer-reviewed literature; and present at conferences.

Required Qualifications:
1. A Ph.D. (or be in the final stages of dissertation completion before applying) in meteorology, atmospheric science or related area.
2. Research experience with storm-scale numerical weather prediction and ensemble data assimilation.
3. Experience with Linux/Unix, programming (e.g., Fortran, C, C++), and scripting (e.g. Python, NCL).
4. Excellent oral and written communication skills (including papers published in or submitted to refereed journals) and the ability to work both independently and cooperatively with others.

The beginning salary range will be $54,000-$57,000 per year (depending on qualifications) with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview. Start date for the position will be as soon as the candidate can begin work. The position will remain open until filled.

This position is a full-time, one-year appointment and is funded by a partnership between NOAA and the University of Oklahoma through CIMMS. The appointment may be extended for one additional year subject to satisfactory performance and funding availability.

To apply for the position, please forward your resume, cover letter and list of three references to:

Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK  73072-7304
treinke@ou.edu
ATTN: WoF V-SE 07-17
President Harry S. Truman Fellowship in National Security Science and Engineering

Seeking Applicants!

Sandia National Laboratories is seeking applicants for the President Harry S. Truman Fellowship (in National Security Science and Engineering). Candidates for this position are expected to have solved a major scientific or engineering problem in their thesis work or have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

The Fellowship provides the opportunity for new Ph.D. scientists and engineers to pursue independent research of their own choosing that supports Sandia’s national security mission. The appointee is expected to foster creativity and to stimulate exploration of forefront science and technology and high-risk, potentially high-value research and development.

Sandia’s research focus areas are: bioscience, computing and information science, engineering science, materials science, nanodevices and microsystems, radiation effects and high energy density physics, and geosciences. To learn more about additional R&D programs that support Sandia’s mission areas, please visit: sandia.gov/missions

The Truman Fellowship is a three-year appointment. The salary is $111,200 plus benefits and additional funding for the chosen proposal. The deadline is November 1 of each year and normally begins on October 1 the following year.

Requirements:

Candidates must meet the following requirements:

- Ph.D. awarded within the past three years at the time of application or completed Ph.D. requirements by commencement of appointment; with strong academic achievement and evidence of exceptional technical accomplishment, leadership, and ability to team effectively
- Candidates must be seeking their first national laboratory appointment (no previous postdoctoral appointments at a national laboratory)
- Ability to obtain a DOE “Q” clearance, which requires US citizenship

For more information, visit:
http://sandia.gov/careers/students_postdocs/fellowships/truman_fellowship.html

Apply online: sandia.gov/careers
Click on “View all Jobs”
Search “Truman Fellowship”
or Job ID: 657429

VISION
On behalf of our nation, we anticipate and solve the most challenging problems that threaten security in the 21st century.

MISSION
The synergy and interdependence between our nuclear deterrence mission and broader national security missions forge a robust capability base and empower us to solve complex national security problems.

VALUES
Sandia’s five core values inform our daily decisions, shape our performance, and enable us to achieve success as one lab.

- We serve the nation
- We team to deliver with excellence
- We respect each other
- We act with integrity
- We live safe and healthy lives
Jill Hruby Fellowship

Seeking Applicants!

We are now accepting applications for the 2018 Jill Hruby Fellowship in National Security Science and Engineering. The Hruby Fellowship is one of Sandia National Laboratories’ most prestigious postdoctoral fellowships. This fellowship aims to develop women in the engineering and science fields who are interested in technical leadership careers in national security. Jill Hruby is the first woman to have been appointed director of a large, multidisciplinary national security laboratory and has been a driving force for other women at Sandia and across the country to follow careers in technical leadership.

Jill Hruby Fellows have the opportunity to pursue independent research that supports Sandia’s purpose: to develop advanced technologies to ensure global peace. In addition to receiving technical mentorship, Jill Hruby Fellows participate in a unique, prestigious leadership development program. To be considered for this fellowship, applicants must display excellent abilities in scientific and/or engineering research and show clear promise of becoming outstanding leaders. Fellows may work at either of Sandia’s principal locations in New Mexico and California. All qualified applicants will be considered for this fellowship.

Sandia’s competitive wage and benefits package includes an annual salary of $111,200; flexible work arrangements; 11 paid holidays; three weeks of vacation; health, vision, and dental insurance; and a 401(k) savings plan with company match.

Qualifications we Require

- Ph.D. conferred within the past three years or completion of Ph.D. requirements by commencement of appointment Fall 2018
- Evidence of strong academic achievement, exceptional technical accomplishment, leadership and ability to team effectively
- No previous postdoctoral appointments at a national laboratory (internships excluded)
- Ability to obtain and maintain a DOE security clearance, which requires US citizenship
- Research in areas relevant to national security

Qualifications we Desire

- Creativity and self-motivation
- Good communication skills
- Interest in management/leadership
- Ability to work in a team-oriented, dynamic environment
- Demonstrated interest and/or experience in service to the nation
- Broad-based background and extensive knowledge in one or more of the following areas: bioscience, computing and information science, engineering sciences, geoscience, materials science, nanotechnology and Microsystems, and radiation effects and high energy density sciences

The Hruby Fellowship is a three-year appointment and normally commences on October 1, although exceptions may be made to accommodate special circumstances.

For more information, please visit:
http://www.sandia.gov/careers/students_postdocs/fellowships/hruby_fellowship.html

Apply online:
sandia.gov/careers
Click on “View all Jobs”
Search “Hruby Fellowship”
or Job ID: 658086

Equal opportunity employer/Disability/Vet/GLBT 07/2017
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