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

Facebook
Twitter
Department Magazine (Spring 2018)
Website News

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS
October 23
November 20
3:00 PM
HAMP 3201

EAPS PRIMARY COMMITTEE MEETINGS
October 30
November 13

CoS STAFF MEETING
December 17
3:00-4:30 PM
WTHR 200

EAPS COLLOQUIA

Thomas Heaton
California Institute of Technology
Tuesday, October 23, 2018
12:00 p.m.
HAMP 2117

Kathleen Vander Kaaden
Jacobs/NASA Johnson Space Center
Thursday, October 25, 2018
3:30 p.m.
HAMP 1252

http://www.eaps.purdue.edu/
EAPS DEFENSES

MS
Carolyn Box
November 9, 2018
1:00 PM
HAMP 3201

PhD
Sheridan Ackiss
October 22, 2018
2:00 PM
ARMS 1028

Paul Acosta
November 1, 2018
9:00 AM
HAMP 2201

Ya-Huei Huang
November 2, 2018
1:00 PM
HAMP 2201

TG RIVERS COMEDY HYPNOTIST SHOW

Time is running out to buy your advance tickets for only $5 in the EAPS main office (HAMP 2169).

On Thursday, November 1 from 6:30-8:30/pm in Hiler Theater (WALC 1050), the College of Science will be hosting a United Way Fundraiser featuring the TG Rivers Comedy Hypnotist Show here on campus. This is a professional hypnotist who will provide a fun, family friendly experience by selecting 15 volunteers from the audience to come on stage where they “will be the stars of the show”!

To help raise money for United Way and enjoy an inexpensive night of entertainment, advance tickets may be purchased for only $5 (see flyer for various locations) or $10 at the door. For a small example from one of his previous shows go to: https://www.youtube.com/watch?v=rMz5jZIV_Wc

In addition, TG Rivers will be videotaping the performance so you can order a copy of the show – what a great souvenir to take back to your family and friends; especially if you are on stage as a part of the act, or know someone else who is.

[For complete information please see attached flyer.]

HOW MANY DO YOU SEE? HOW MANY CAN THERE BE?

Last day to enter is Wednesday (10/24/18), only 12 entries so odds could be in your favor! Guess how many candies are in the jar - Stop by the EAPS main office for another United Way Fundraising opportunity! Just a donation of $1 for two chances to see if you can guess the number of candies in the jar, person closest to the correct number (without going over) wins the candy. [Jar not included]

NASA POSTDOCTORAL FELLOWSHIP

The NASA Postdoctoral Program offers US and international scientists the opportunity to advance their research while contributing to NASA’s scientific goals. The NPP supports fundamental science; explores the undiscovered; promotes intellectual growth; and encourages scientific connections.

Selected by a competitive peer-review process, NPP Fellows complete one- to three-year Fellowship appointments that advance NASA’s missions in earth science, heliophysics, planetary science, astrophysics, space bioscience, aeronautics and engineering, human exploration and space operations, and astrobiology.

Applications are accepted three times each year: March 1, July 1, and November 1.

For further information and to apply, visit: https://npp.usra.edu/. Please send any questions: to npphelp@usra.edu

[See attached flyer for complete information]
FACULTY SEARCH COMMITTEE WORKSHOPS SCHEDULED FOR FALL

Please see info at link below for required workshop if you plan to serve on a faculty search committee (and have not already taken the workshop).

The workshop, which is open to all faculty and administrators and required for serving on a search committee, will be held 1:15-5 p.m. on Aug. 27 and Sept. 18 in the Purdue Memorial Union’s East and West Faculty Lounges. Lunch items will be available. The final fall 2018 workshop will be held 8:15 a.m.-noon Oct. 31 in Stewart Center, Room 206, with light breakfast items available.


STUDENT NEWS

TN - ENVIRONMENTAL CONSULTANT 1 POSITION

Looking for an individual with a background in atmospheric science. The person in this position would be doing air quality forecasting and quality assurance of air quality data.

The minimum qualifications are:

Education and Experience: Graduation from an accredited college or university with a bachelor's degree in environmental science, physical sciences (e.g. physics, chemistry, geology, meteorology), ecology, sustainability or applied science in sustainability, life sciences (e.g. biology, microbiology, health physics or biophysics), environmental health, pre-medicine, engineering or other acceptable science or natural resource related field and three years of full-time professional environmental program, natural resource conservation work or full-time professional work that involved ensuring compliance with radiation safety standards and/or regulations.

Substitution of Education for Experience: Graduate coursework in environmental science, biology, chemistry, geology, engineering, physics, ecology, sustainability, applied science in sustainability, or other acceptable science or natural resource related field may be substituted for the required experience, on a year-for-year basis, to a maximum of two years (24 semester hours is equivalent to one year).

Substitution of a Specific Bachelor's Degree for Experience: A bachelor's degree in health physics or nuclear engineering may substitute for one year of the required experience in the Division of Radiological Health.

For position listing go to: TN Dept. Of Environment & Conservation – Environmental Consultant 1

If you have any questions please contact Kyle Spangle (kyle.spangle@tn.gov)

PURDUE GIS DAY CONFERENCE

Submission Deadline 11:59pm, Monday, October 22

Thursday, November 1, 2018
9:00 am – 4:30 pm
Stewart Center 206 & 214

[See attached flyer for complete details]

2018 EARTH SCIENCE PASSPORT DAY

Imagination Station
Saturday, November 10, 2018
10:00 AM – 3:00 PM

[See attached flyer for complete details]

ENVIRONMENTAL & SUSTAINABILITY STUDIES CERTIFICATE CALL-OUT

WALC 1087
October 25, 2018
6:00 – 7:00 pm
FREE FOOD AND DRINKS!

[See attached flyer for complete details]

http://www.eaps.purdue.edu/
OPERATION GROUNDSWELL - BACKPACKING WITH A PURPOSE

2019 APPLICATIONS NOW OPEN!

Discover the wider world and connect with change makers making a positive and lasting impact in their communities.

Operation Groundswell is a non-profit organization that facilitates deeply immersive, educational, and volunteer experiences around the world. We dig into social justice issues while working in solidarity with local activists, non-profits, and communities. We want you to join us in our mission to create a more equitable, just, and sustainable world through travel.

Apply by November 23rd! Programs are filling up quickly, so apply as soon as possible. Financial assistance is available for all students on five- and six-week programs. You may also be able to use our programs for academic credit. Talk to us about your options!

Start your journey at: WWW.OPERATIONGROUNDSWELL.COM
Can’t travel in the summer? We travel all year long!

POST-DOC POSITION AT CU-BOULDER

A postdoctoral researcher is sought to investigate atmospheric mesoscale and storm-scale processes associated with the initiation of deep moist convection, to begin Aug-Sept 2019.

During November-December 2018, the Remote Sensing of Electrification, Lightning, and Mesoscale/Microscale Processes with Adaptive Ground Observations (RELMAPAGO) field project will collect high-resolution radar, radiosonde, aircraft, and surface observations within and surrounding deep moist convection in Argentina. Satellite and other observations suggest that storms in this region are among the most intense in the world. Among many goals, the RELAMPAGO project seeks to understand local terrain influences, and mesoscale and sub-mesoscale meteorological processes associated with the initiation and intensification of deep moist convection.

The postdoc will conduct novel research related to increasing our understanding of convection initiation processes (i.e., development of a cumulus field from shallow to deep convection) using data acquired during the RELAMPAGO project. Research methodology may include: advanced analysis of research observations (e.g., multi-Doppler wind retrievals and integrated in situ observations), multi-case observational climatologies, high-resolution mesoscale and/or cloud-scale numerical modelling (idealized simulations and/or real case simulations), ensemble data assimilation, or theoretical work.

The postdoc period is 1 year, with an additional year possible pending performance and funding (up to 2 years total). The position will be sponsored at the University of Colorado, in Boulder. Collaboration between the candidate and scientists from the National Center for Atmospheric Research, Center for Severe Weather Research, and other U.S. universities is anticipated and encouraged. Travel to relevant conferences/workshops to present scientific results and publication in peer-reviewed journal articles is expected.

The candidate must have a Ph.D. in the Atmospheric Sciences conferred by Summer 2019. An in depth understanding of shallow and deep moist convective processes and boundary layer meteorology, research experience using high-resolution weather observations (e.g., research radar and sounding data) and/or convective-scale modeling, and a demonstrated ability to present and publish scientific results to relevant meteorological communities are required.

The University of Colorado does not discriminate on the basis of race, color, national origin, sex, age, pregnancy, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation, or political philosophy. All qualified individuals are encouraged to apply. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at: adacoordinator@colorado.edu.

Interested candidates should apply at https://jobs.colorado.edu/jobs/JobDetail/?jobId=13240.
Informal inquiries can be made to James Marquis (james.marquis@colorado.edu).

http://www.eaps.purdue.edu/

The Climate and Atmospheric Science section pursues a program of basic and applied research, monitoring, services, and outreach to address key atmospheric issues of importance to Illinois, the Midwest, and the nation. Areas of research include climate variability and change, how hazardous weather events respond to climate variations, the impacts of weather and climate events, air quality, cloud physics, storm-scale (mesoscale) meteorology, and near-surface (boundary layer) weather. The CAS is seeking a Postdoctoral Research Associate for the SAVANT (stable atmospheric variability and transport) project. This position will report to Dr. Junming Wang, Atmospheric Scientist and Principal Investigator.

[See attached flyer for complete information]

UNDERGRADUATE RESEARCH ROUNDTABLE

College of Science undergraduate students are encouraged to take advantage of these upcoming opportunities for scholarships and research mentoring opportunities.

Tuesday, October 30th
PMU Ballrooms
9am-2pm

https://www.purdue.edu/undergrad-research/scholarships/researchgrants.php

https://www.purdue.edu/undergrad-research/index.php

[See attached flyer for complete details]

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY

Freshmen and transfers interested in signing up for GSP can go to this link and sign up:

http://www.eaps.purdue.edu/

NATIONAL DEFENSE SCIENCE & ENGINEERING GRADUATE (NDSEG) FELLOWSHIP

National Defense Science & Engineering (NDSEG) Fellowship Information Session – Webinar will be held October 18, 2018 @ 7:00 p.m. Learn how to Prepare a Competitive Application Application deadline is December 7, 2018.

NDSEG Fellowship Website: https://www.ndsegfellowships.org/

[For more information see attached flyer]

BRITISH COLUMBIA ASSISTANT PROFESSOR POSITION

The Department of Earth, Ocean and Atmospheric Sciences (EOAS) at the University of British Columbia invites applicants for a full-time, tenure-track faculty position at the level of Assistant Professor. Applicants will have a PhD or equivalent experience in a related field and should be investigating processes relating to the field of atmospheric science, with research in the Earth's atmosphere or planetary atmospheres. All aspects of atmospheric science are of interest, including but not limited to, weather patterns and extreme events under climate change, fundamental processes in coupled climate systems, or boundary layer dynamics. The candidate will be expected to develop a strong, externally funded and internationally recognized research program, successfully supervise graduate students, participate in departmental activities and demonstrate the potential to participate and collaborate in the atmospheric sciences programme. EOAS is dedicated to practicing excellence in teaching and evidence demonstrating interest in innovative teaching methods is desirable, along with demonstrated potential for teaching excellence.

Research and teaching interests in EOAS, the top-ranked and largest Earth Sciences department in
Canada, span the history of the Earth and the evolution of its structure from core to stratosphere (http://www.eoas.ubc.ca/). We seek candidates who complement existing departmental strengths and have capacity and interest in interacting with other research groups both within and outside the department. Candidates should possess a strong record of research productivity commensurate with their experience.

How to Apply:

1) Visit https://www.hr.ubc.ca/careers-postings/faculty.php and select job ID 31310. Use the upload page to upload a single PDF file that includes: i) a cover letter, ii) a detailed curriculum vitae, iii) a one-page summary of research interests and accomplishments, iv) a one-page outline of a potential five-year research program, v) a one-page statement of teaching philosophy, vi) three recent publications.

2) Submit the names and contact information of three referees online at https://www.eoas.ubc.ca/content/atscirefsub. We will send an automated email message requesting that they submit reference letter on your behalf before November 1, 2018. We recommend that you follow-up with your letter writers to confirm receipt of the automated message and submission of their letter.

Review of applications will start November 1, 2018 and applications will be accepted until the position is filled. The successful applicant is expected to start in July 2019 or at a date of mutual agreement. This position is subject to final budgetary approval.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.

UNIVERSITY AT ALBANY – POST-DOCTORAL RESEARCH

Professor Ryan Torn at the University at Albany is seeking a post-doctoral research with research interests in ensemble forecasting and/or tropical cyclone forecasting and prediction. The research supported by this award will be directed toward assessing probabilistic hazard prediction in the Hurricane Weather Research and Forecasting (HWRF) ensemble prediction system. In addition, the award will support research into understanding the factors that impact position and intensity forecasts.

Candidates should hold a PhD in atmospheric science or related discipline, conferred within the last three years, from a college or university accredited by the U.S Dept. of Education or an internationally recognized accrediting organization, have some experience using numerical weather prediction model output, and have the ability to work independently. Ideal candidates would have some experience with model validation.

Terms of appointment are for one (1) year, renewable for one additional year, subject to satisfactory performance. All applicants must address in their applications their ability to work with a culturally diverse population.

Applicants are asked to submit electronically: (1) a curriculum vitae, (2) a publication list, and (3) the names of three individuals who can provide a letter of reference and (4) a statement of professional interests to Ryan Torn (rtorn@albany.edu). The position will remain open until it is filled. Preference will be given to applications that are received before November 15, 2018.

http://www.eaps.purdue.edu/
ASSISTANT PROFESSOR – EARTH SCIENCE

The Earth Science Department at Southern Connecticut State University is currently seeking applicants for a tenure-track faculty position in Earth Science with an emphasis on expertise in sedimentology, stratigraphy, and historical geology.

[For completed information on position please see attached flyer]

CIMMS RESEARCH FELLOW – IMPACT-BASED DECISION SUPPORT SERVICES

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently looking for a Research Fellow to collaborate with scientists and instructors at the National Weather Service Training Center (NWSTC) in Kansas City, MO to study meteorology and the application of Impact-Based Decision Support Services (IDSS) with NWS partners. IDSS is an important component of the NWS Weather-Ready Nation roadmap, with the goal of providing easily understandable information critical to federal, regional, state, and local partners. The CIMMS Research Fellow will be responsible for assisting the Decision Support and Communications Division at the NWS Training Center with the research, development, and execution of training to support NWS employees’ ability to provide IDSS.

[See attached flyer for complete details]

ATMOSPHERIC SCIENTIST POSITION

Verisk Weather Solutions, based in Lexington, MA. is currently looking for an Atmospheric Scientist. Verisk develops products for the insurance industry, which of course is impacted greatly by weather. They are searching for someone with strong meteorology, especially weather radar, and programming skills. They are interested in the PyART project, and would like to devote some resources to contribute back to the project. Other open source projects may also get some attention as well. If you are interested in learning more, click the job announcement link below:


CIRES/NOAA/NWS WEATHER PREDICTION CENTER HYDROMETEOROLOGICAL TESTBED PROJECT FACILITATOR

The Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado Boulder is seeking a Professional Research Assistant to provide scientific and meteorological expertise, technical and project management support for the NOAA Hydrometeorological Testbed (HMT), which is jointly organized by the NWS/Weather Prediction Center (WPC) and the OAR/Earth Systems Research Laboratory (ESRL). The position will be based at the WPC in College Park, Maryland, within the NOAA Center for Weather and Climate Prediction (NCWCP). The NCWCP is a highly collaborative environment containing several NOAA organizations, including the Environmental Modeling Center (EMC) and Climate Prediction Center (CPC). The incumbent will interact with HMT staff, NOAA scientists and forecasters, and externally funded researchers to facilitate the transition of new science to NWS forecast operations for hazardous weather. Areas of particular need and interest to be addressed include the forecasting of heavy precipitation associated with land-falling tropical cyclones, warm-season convection, winter storms, and atmospheric rivers. Additional areas of focus include the use of ensemble model output and forecaster generation of probabilistic products, as well as exploring future roles of weather forecasters. For complete listing information please go to:

https://jobs.colorado.edu/jobs/JobDetail/?jobId=13029

TESTBED METEOROLOGIST – HYDROMETEOROLOGICAL TESTBED

I.M. Systems Group, Inc. (IMSG), www.imsg.com, a Federal Government Contractor, is seeking to fill a

http://www.eaps.purdue.edu/
The position supporting the Weather Prediction Center (WPC) of the National Centers for Environmental Prediction (NCEP), within the NOAA Center for Weather and Climate Prediction (NCWCP). The position will be based at the WPC in College Park, MD.

The NCWCP is a highly collaborative environment containing several NOAA organizations, including the Environmental Modeling Center (EMC) and Climate Prediction Center (CPC) as well as being in close proximity to the University of Maryland. The contractor will serve as a Testbed Meteorologist in NOAA Hydrometeorological Testbed at the WPC (NOAA HMT-WPC). In this capacity the incumbent will work with scientists within NOAA and partners outside of NOAA to identify and evaluate promising techniques for improved weather forecasts. The successful candidate will work with WPC meteorologists to enhance the transition of research to operations, and assist in the training of WPC staff in new techniques and tools. The incumbent will also work with other HMT-WPC staff to publish results from studies in peer-reviewed journals.

Areas of particular need and interest to be addressed include the forecasting of heavy precipitation associated with land-falling tropical cyclones, warm-season convection, and atmospheric rivers. Additional areas of focus include the use of ensemble model output and forecaster generation of probabilistic products, as well as exploring future roles of weather forecasters.

For complete listing information go to: https://careers-imsg.icims.com/jobs/1144/noa1817-testbed-meteorologist---hydrometeorological-testbed/job?mobile=false&width=1902&height=500&bga=true&needsRedirect=false&jan1offset=-300&jun1offset=-240

PREPARING TO APPLY FOR THE FORD FOUNDATION FELLOWSHIP: A WORKSHOP FOR PhD AND POSTDOCS

Learn how to prepare a competitive application. The Ford Fellowship focuses on diversity in academia by providing funding for students who aspire to become university faculty researchers and teachers. Doctoral students in a variety of disciplines are encouraged to apply. Preference is given to applicants who have experience teaching, volunteering, or otherwise engaging with diverse communities. Sign up here:

October 30, 2018
7:00 – 8:00 pm
WALC 2007

[See attached flyer for complete information]

GSA AND AGU RECEPTIONS

The GSA Reception is at the J.W. Marriott in Indianapolis, Room 101 on Monday, November 5, from 7-9 p.m.

The AGU Reception is at Matchbox Chinatown in Washington D.C. on Thursday, December 13, from 7-9:30 p.m.

2019 COLLEGE OF SCIENCE GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS

Applications Submission deadline is 4:00 PM November 17, 2018 for travel between January 1, 2019 and June 30, 2019. Two to three awards ranging up to $800 for international travel will be awarded. Send applications to Robin Sipes at rsipes@prudue.edu

[See attached flyer for complete information]

POSTDOCTORAL RESEARCH SCIENTIST POSITION

The Lamont-Doherty Earth Observatory of Columbia University invites applications for a Postdoctoral Research Scientist position in atmosphere and climate dynamics. The successful candidate will work on a NSF funded project on the analysis and modeling of the mechanisms of climate variability and change on interannual to centennial timescales in the Mediterranean region. The position will be located at the Lamont-Doherty Earth Observatory of Columbia University.

http://www.eaps.purdue.edu/
Earth Observatory in Palisades, NY in the research group of Richard Seager, Yochanan Kushnir and Naomi Henderson and will also collaborate with Isla Simpson of NCAR.

Candidates must have a PhD in atmosphere, climate, or related sciences with a concentration in atmosphere and climate dynamics and a keen interest in climate variability and change, especially hydroclimate, and its social impacts. Demonstrated skill in the ability to analyze and manipulate large and disparate datasets, familiarity with diagnosis of Reanalyses and climate models and experience in setting up and running global atmosphere models is preferred.

Appointment will be for 1 year, with second year continuation contingent on progress and funding.

Search will remain open for at least 30 days after the ad appears and will continue until the position is filled.

For further information about this position and to submit your curriculum vitae, a statement of research interests, and names and addresses of three referees, please visit our online application site at: https://academicjobs.columbia.edu/applicants/Central?quickFind=67000

CIMMS ARM DATA QUALITY OFFICE – RESEARCH ASSOCIATE

The Cooperative Institute for Mesoscale Meteorological Studies at the University of Oklahoma is seeking a Research Associate with strong attention to detail and excellent programming skills to join the U.S. Department of Energy’s (DOE) Atmospheric Radiation Measurement (ARM) Program Data Quality (DQ) Office located in the National Weather Center at the University of Oklahoma in Norman, Oklahoma. The DQ Office Supports the ARM Program by serving as the first line of defense in discovering data quality issues with the final goal of providing the science community with the highest quality data possible. The primary responsibilities of the DQ Office are, in close cooperation with ARM instrument mentors, site operators, and other members of the ARM infrastructure, to create automated processes for inspection and assessment of data quality, inspect and assess the data, report detected problems and participate in their resolution, and communicate data quality findings to end-users of ARM data. Members of the DQ Office are active in many different areas of the data flow process, such as enforcing standards for data products, creating the software necessary to visualize and quality control the data, and helping to convey information about known problems to data users.

[For additional information see attached flyer]

APPLY NOW FOR 2019 AMS SCHOLARSHIPS AND FELLOWSHIPS

AMS scholarships and fellowships range from $1,000 to $25,000 and are open for applications — whether you will be a college freshmen or a graduate student, AMS supports your education and pursuit of a career in the atmospheric and related oceanic or hydrologic sciences.

• 21 Senior Scholarship awards ranging from $2000 to $10,000 are available in 2019 for outstanding undergraduate students entering their final year of study. Applications are due on 8 February 2019.

• AMS Graduate Fellowships include a $25,000 stipend and partial travel support to attend the AMS Annual Meeting. Applications are due on 11 January 2019.

• The AMS Freshman Undergraduate Scholarship program is open to all high school students and designed to encourage study in the atmospheric and related sciences. Applications are due on 8 February 2019.

• AMS Minority Scholarships award funding to minority students who have been traditionally underrepresented in the sciences, especially Hispanic, Native American, and Black/African American students. Applications are due on 8 February 2019.

To learn more and apply click here.
NSF 2026 IDEA MACHINE COMPETITION

The National Science Foundation (NSF) announces the launch of the NSF 2026 Idea Machine, a prize competition to help set the U.S. agenda for fundamental research in science, technology, engineering, and mathematics (STEM) and STEM education. Participants can earn cash prizes and receive public recognition by suggesting the pressing research questions that need to be answered in the coming decade, the next set of “Big Ideas” for future investment by NSF. It’s an opportunity for researchers, the public and other interested stakeholders to contribute to NSF’s mission to support basic research and enable new discoveries that drive the U.S. economy, enhance national security and advance knowledge to sustain the country’s global leadership in science and engineering.

Entries will be accepted through October 26, 2018. For more information, including entry instructions, eligibility, rules, and judging criteria, please visit the NSF 2026 Idea Machine website.

APPLICATION FOR POSTDOCTORAL RESEARCH ASSOCIATE

The Atmospheric and Oceanic Sciences Program at Princeton University in cooperation with NOAA’s Geophysical Fluid Dynamics Laboratory (GFDL) seeks a postdoctoral researcher or more senior position to conduct studies on the predictability of seasonal hydroclimate extremes. This position is a part of the Forecasting a Continuum of Environmental Threats (FACETs) project, which is a proposed next-generation hazardous weather paradigm that utilizes probabilistic information as its foundation. FACETs will leverage physical and social science research to support a system that is modern, flexible, and designed to communicate clear and simple hazardous weather, water, and climate information to serve society. FACETs supports NOAA’s Weather-Ready Nation initiative to build community resilience in the face of increasing vulnerability to extreme weather, water, and climate events.

Complete applications, including cover letter, a curriculum vitae, a publication list, and contact information for three references, must be submitted online to https://www.princeton.edu/acad-positions/position/8341.

JILL HRUBY FELLOWSHIP SEEKING APPLICANTS

We are now accepting applications for the 2019 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. Deadline for applying is November 1, 2018.

[See attached flyers for additional information]

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 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.

The application deadline is November 1 of the year prior to the October start date.

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

CLIMATE PROGRAM OFFICER

This is a staff position at the David & Lucile Packard Foundation and the search is being handled by Waldron. The position description is available here. This is a new PO position at the Foundation – the individual will direct our grantmaking on bioenergy and will also be our point person for work on Carbon Dioxide Removal. Candidates must have a minimum of 5 years of relevant leadership experience promoting changes in society, markets, governments, or the private sector.

UNIVERSITY NEWS

5th ANNUAL PURDUE VETERINARY MEDICINE COPPOC ONE HEALTH LECTURE

The 5th Annual Purdue Veterinary Medicine COPPOC ONE HEALTH LECTURE, “Antimicrobial Stewardship and One Health” by Jeff Bender, DVM, MS will be held November 1, 2018 # 3:30 p.m. in LYNN 1136.

[See flyer attached]

FACULTY AFFAIRS INITIATIVES UP-TO-DATE WITH DEADLINES FOR 2018-2019

The website for faculty affairs initiatives in up-to-date with the deadlines for FY 2018-2019 and descriptions of the programs.

https://www.purdue.edu/provost/faculty/facultyinitiatives/facultyinitiatives.html

Should you have any questions, please contact Jessica Huber (jhuber@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 and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Katherine Huseman (khuseman@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.

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/
Implications of Strong-Rate-Weakening Friction for the Length-Scale Dependence of the Strength of the Crust; Why Earthquakes are so Gentle

Thomas Heaton
California Institute of Technology

The thinness of fault slipping zones and the paucity of observed melts implies very low dynamic friction compared to the overburden pressure (less than 0.05 for a meter of slip at 10 km). However, if static friction was comparably low, then the crust could not support observed topographic relief. Strong-rate-weakening friction seems to be a plausible explanation for these seemingly conflicting observations. Strong-rate-weakening friction leads to slip-pulses with extremely complex failure dynamics; strong positive feedback between the slip and the friction produces multi-scale chaos. Unfortunately, 3-d continuum problems with strong-rate-weakening friction are numerically intractable. Therefore we (Ahmed Elbanna and I) investigated the much simpler problem of 1-d spring block sliders with strong-rate-weakening friction. We show that the system produces power-law complexity. That is, the pre-stress evolves into a state that is heterogeneous at all scales. Since the pre-stress and the events are spatially heterogeneous, we must generalize our definition of "strength." We define "stress-based strength" to be the spatial average of the pre-stress in a failure region, and we define "work-based strength" to be the average work per unit of deformation. We show that these strengths are not the same. Furthermore, we show that the larger the event (or system), the smaller the strength. We show that the strength decreases as a power with the size; the exponent of this relation is related to the dynamic heterogeneity of the system. Since the model is homogeneous, all complexity is dynamic. Earthquakes are so gentle because the Earth is so big.

Finally we show a surprising new energy transport equation that reproduces the chaotic behavior of the full numerical simulation. The equation is multi-scale and many orders of magnitude faster than the full numerical system.
Geochemical Evolution of Mercury: An Experimental Perspective

Kathleen Vander Kaaden
Jacobs/NASA Johnson Space Center

With the recent estimate of Mercury’s surface composition from the X-Ray Spectrometer and Gamma-Ray Spectrometer that were onboard the MErcury Surface, Space ENvironment, GEOchemistry and Ranging (MESSENGER) spacecraft, we now have our first opportunity to directly investigate the compositions of lavas from the planet Mercury and indirectly investigate the chemical make-up of its interior. Results from MESSENGER showed Mercury’s surface has high amounts of sulfur (>3 wt%) and relatively low amounts of iron (<3 wt%), consistent with magmatism occurring under highly reducing conditions (i.e. up to 7 log units below the iron-wüstite buffer). Under such reducing conditions, one would expect the majority of the Fe within the planet to partition into the core. Furthermore, one would expect the deviation of elements from their geochemical behavior displayed at higher oxygen fugacities, similar to Mg and Ca displaying chalcophile behavior in some highly reduced chondrites and achondrites forming the minerals oldhamite [(Ca,Mg,Fe,)S] and niningerite [(Mg,Fe,Mn)S]. Here we’ll explore the geochemical evolution of Mercury through a series of experimental studies. We’ll examine the implications of the exceedingly low FeO content of the largest volcanic field on the surface of the planet as well as the fate of carbon during the evolution of Mercury.

Thursday, October 25, 2018
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/HAMP
Come see hypnotist T.G. RIVERS bring his award-winning, family-friendly comedy hypnosis act to campus!

Brought to you by Purdue College of Science and Royal Plumbing, with proceeds benefiting United Way

Thursday, November 1, 6:30 p.m. (doors open at 6)
Hiler Theater (WALC 1050)
Only $5 in advance; $10 at the door

Wristbands can be purchased in advance from:
HAAS 164 / HAMP 2169 / MATH 931 / LILY 1-118 / LWSN 3144-A / WTHR 265

*So as not to distract from the show, no persons under the age of 5 permitted.
*No admittance once show begins until after hypnosis is completed.
The NASA Postdoctoral Program provides fellowships to conduct cutting-edge research at NASA Centers and NASA-affiliated research institutes.

Appointments renewable up to three years

Stipends begin at $60,000 with increases depending on locality and seniority

Open to U.S. citizens, Lawful Permanent Residents, and Foreign Nationals (eligible for J-1 status)

Postdoctoral and Senior Fellowships available

$10,000 for support of professional travel per year

Health insurance and relocation assistance available

Research Areas
- Aeronautics and Engineering
- Astrobiology
- Astrophysics
- Biological Sciences
- Cosmochemistry
- Earth Science
- Heliophysics Science
- Planetary Science
- Technology Development
- Science Management

Opportunities

npp.usra.edu/opportunities/

Apply

npp.usra.edu

Women, minorities, and members of underrepresented communities are encouraged to apply.

DUE
- March 1
- July 1
- November 1

Contact

npphelp@usra.edu

Administered by Universities Space Research Association
CALL FOR SUBMISSIONS

Research Presentation
15-minute presentation followed by Q&A.

Round-Table Discussion
One-hour discussion with live demo or project display.

Student Lightning Talks
Five-minute talk to showcase your research that uses a GIF as a component in any way.

Student Poster Competition
Present your work and interact with audience during poster session. Enter the competition to win awards.

Purdue Libraries Esri Development Center Student of the Year Contest
The EDC Student of the Year is an annual award open to all Purdue students, sponsored by Purdue Libraries Learning Council. The winner will be recognized as Student of the Year for outstanding achievements in development of innovative tools, applications, or techniques using ArcGIS platform. Each year the winner will be awarded with a plaque, cash prize (currently $500) and one Esri Developer Summit registration.

SUBMISSION DEADLINE
11:59 p.m. Monday, Oct. 22

Open to all Purdue University students

Submit for any or all at
http://go.lib.purdue.edu/events/GIS2018

More information at
www.lib.purdue.edu/gis/gisday

Questions? Contact: geohelp@purdue.edu
Join Purdue's Earth, Atmospheric, & Planetary Sciences department at:

2018 Earth Science PASSPORT DAY

Saturday, November 10
10 am - 3 pm

Imagination Station
600 N 4th St, Lafayette, IN
*Admission $4 (2 years & under free)

Enjoy a journey through the Earth Sciences!
Practice your scientific skills with 10+ hands-on activities!
Complete them all to win cool prizes and the title of Junior EAPS Scientist!

Contact: Bradley Garczynski (bgarczyn@purdue.edu); Dara Lacznia (dlacznia@purdue.edu)
TO ALL MAJORS AT PURDUE

FREE FOOD AND DRINKS!

Learn more at our next call-out:
October 25\textsuperscript{th} | 6-7:00PM | WALC 1087

For more info contact your advisor, or the program coordinator:
Dr. Robert Marzec, rmarzec@purdue.edu
The Climate and Atmospheric Science section pursues a program of basic and applied research, monitoring, services, and outreach to address key atmospheric issues of importance to Illinois, the Midwest, and the nation. Areas of research include climate variability and change, how hazardous weather events respond to climate variations, the impacts of weather and climate events, air quality, cloud physics, storm-scale (mesoscale) meteorology, and near-surface (boundary layer) weather. The CAS is seeking a Postdoctoral Research Associate for the SAVANT (stable atmospheric variability and transport) project. This position will report to Dr. Junming Wang, Atmospheric Scientist and Principal Investigator.

**Primary function**
Measure and analyze stable atmospheric variability and transport (SAVANT), including cold drainage and converge flow processes in shallow gullies and how the flows affect pollutant dispersion.

**Major duties**
Collect and analyze data from 3-D Doppler lidar (wind measurements), 3-D aerosol lidar (pollutant dispersion measurements), airborne and ground instruments (ground temperature, radiation, atmospheric thermodynamic properties, and pollutant dispersion measurements), then answer the following questions:
1. Under what mesoscale and microscale conditions (i.e. cloud cover, threshold wind speed, surface cover, stability regime, background flow, slope ratio and length, and gully volume) do converging flows exist?
2. What is the spatial and temporal scale of turbulence forced oscillations and/or gravity waves generated by converging flows, and do these oscillations/gravity waves follow the linear theory of internal gravity waves (IGW)?
3. How are aerosol dispersion and transport influenced by turbulence forced oscillations and/or gravity waves generated from a converging flow?

**Qualifications**

**Education**
PhD in atmospheric science, engineering, computer science, or a related field.

**Experience**
Required: A demonstrated record of writing and/or publishing of manuscripts. Preferred: expertise in boundary layer processes, such as cold drainage and converging flows in stable boundary layers; data analysis and instrumentation experience.

**Knowledge**
Must have a strong background in atmospheric science, as well as extensive programming skills.

**Duration**
Two years with annual contract contingent upon the funding availability and performance.

**Application deadline**
Open until the position is filled.

Salary: is commensurate with qualifications and experience.

**Application procedures:** Please send a letter of application, CV, and the names, addresses, phone numbers, and e-mail addresses of three professional references to Junming Wang, wangjim@illinois.edu. All requested information must be submitted for your application to be considered.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer
UNDERGRADUATE RESEARCH ROUNDTABLE

Tues. Oct. 30th | PMU Ballrooms
9am-2pm

Seeking a research project?
Talk with research mentors & programs about projects to consider and join!

purdue.edu/undergrad-research
Preparation Workshop: Mon. Oct. 29th | 4:30-5:30pm | HIKS G980D
Undergrad research mentors, program directors, & staff are invited to attend the Research Roundtable.

Tues. Oct. 30th | 9am-2pm | PMU Ballrooms

Purdue research mentors, program directors, and staff are invited to host a booth where undergrads seeking research can learn more about available opportunities.

Lunch provided for those working booths.

Reserve your booth by Wed. Oct. 10th at: purdue.edu/undergrad-research

Sponsored by: 150 Years of Giantleaps, Purdue University. PSPE, Office of Undergraduate Research.
ATTENTION ALL FIRST YEAR COLLEGE OF SCIENCE STUDENTS

Now that you have almost completed your first semester in the Purdue College of Science, it’s time for you to step out of your comfort zone.

Join us during the spring semester for monthly dinners, trips and activities (free for you!) that are designed to help you learn about other cultures....while having fun!

- Learning Bollywood Dancing
- Trip to the Indianapolis Zoo
- Team Building

To find out more about the Global Science Partnerships Learning Community, follow this link:
  http://www.science.purdue.edu/gsp/

To join Global Science Partnerships Learning Community, please follow this link:
  https://purdue.ca1.qualtrics.com/jfe/form/SV_9sGoBiXMLfpXDoN

Or contact Terry Ham:
  hamt@purdue.edu  or  globalsciencepartners@purdue.edu

Halloween Service Event at the YMCA
Learn how to Prepare a Competitive Application

Amanda Brennan from the NDSEG Fellowship Team will present on the requirements, benefits, and ways to prepare your application for the NDSEG Fellowship. There will be plenty of time to ask questions after the presentation.

Recipients of the NDSEG Fellowship can receive up to three years of funding including coverage of tuition and fees along with a $3,200 monthly stipend.

NDSEG Fellowship Website: [https://www.ndsegfellowships.org/](https://www.ndsegfellowships.org/)

**Eligibility Requirements:**

- Graduating senior, current masters student, or first or second-year PhD student
- STEM research related to national defense
- US citizen or US national

**Application Deadline:** December 7, 2018

**Sign up Here for the Webinar:** [https://gspd.gosignmeup.com/public/Course/browse?courseid=2647](https://gspd.gosignmeup.com/public/Course/browse?courseid=2647)
Department: Earth Science
Rank: Assistant Professor
Specialization(s): Sedimentology, Stratigraphy, and Historical Geology
Search # 19-002

Located in historic New Haven, a city rich in art and culture, Southern Connecticut State University is a diverse and student-centered university dedicated to academic excellence, access, and service for the public good. Southern provides a supportive and welcoming environment for all members of its community through a campus wide commitment to social justice. SCSU is a flourishing community of approximately 10,000 students, located less than three miles from downtown New Haven, with easy access to New York and Boston.

Brief Description of Duties/Responsibilities:

Southern invites applications from individuals who believe in the mission of public higher education and are committed to outstanding teaching and scholarship/creative activity. Successful candidates will be disciplinary scholars devoted to a student-centric approach.

The Earth Science Department is seeking to fill a tenure-track position at the rank of Assistant Professor in Sedimentary Geology to begin August 2019. We seek a broadly educated, collegial, field-oriented geoscientist with expertise in areas of sedimentary geology including sedimentology, stratigraphy, and invertebrate paleontology. The Earth Science Department at SCSU consists of five full-time and eight adjunct faculty who support a broad-based earth science curriculum with concentrations in geology, environmental earth science, and earth science secondary education (7-12). Details regarding existing programs and facilities can be found on the departmental webpage.

The successful candidate is expected to develop a field-based research program that fosters faculty-student collaboration. Teaching responsibilities may include introductory geoscience courses for non-science majors, sedimentology/stratigraphy, historical geology, and invertebrate paleontology. The candidate must demonstrate the potential for excellence in teaching, mentoring, and research with undergraduates. All faculty at SCSU share in academic advising and participate in department/university service. Normal teaching load is 12 credit-hours per semester.

Tenure-track faculty at SCSU are expected to conduct creative activity/research in their area of expertise. These activities include, but are not limited to: research leading to publication of books and/or articles in academic and professional journals, efforts to seek funding in support of research and teaching needs, and contributions to workshops and conferences.

Required Qualifications:

A Ph.D. in the geosciences. ABD candidates are welcome to apply but must have Ph.D. in hand by the time of appointment. Candidates must also provide evidence of a strong background in the fundamentals of geology and a commitment to undergraduate teaching, research, and service.

Preferred Qualifications:

Minimum of three years of college-level teaching experience either as an instructor or teaching assistant with demonstrated commitment to undergraduate teaching, student-centered research, and service. Broad training in the earth sciences including familiarity with geology, meteorology, oceanography, and astronomy. Experience in teaching general education courses for non-science majors in the areas of geology. Experience in teaching upper-division undergraduate earth science courses in sedimentology/stratigraphy, historical geology, and invertebrate paleontology. Strong record of scholarly research in the geological sciences. Experience with field studies and data collection using modern equipment and instrumentation. Desire and ability to develop an externally funded, field-oriented, undergraduate-friendly research program. Experience and/or interest in the geology of the Northeastern United States.

Application Process:

Please send curriculum vitae, a statement of teaching and research interests/experience, copies of graduate transcripts (unofficial transcripts acceptable), and contact information for three professional references to: Earth Science Department Search Committee Chair at ESCsearch1@southernct.edu. All application materials must be submitted electronically in a single file (PDF preferred). For best consideration, materials should be received by Friday, October 19, 2018. The position will remain open until filled.

SCSU is an Affirmative Action/Equal Employment Opportunity employer. The University seeks to enhance the diversity of its faculty and staff. People of color, women, veterans, and persons with disabilities are strongly encouraged to apply.
CIMMS Research Fellow – Impact-Based Decision Support Services

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently looking for a Research Fellow to collaborate with scientists and instructors at the National Weather Service Training Center (NWSTC) in Kansas City, MO to study meteorology and the application of Impact-Based Decision Support Services (IDSS) with NWS partners. IDSS is an important component of the NWS Weather-Ready Nation roadmap, with the goal of providing easily understandable information critical to federal, regional, state, and local partners. The CIMMS Research Fellow will be responsible for assisting the Decision Support and Communications Division at the NWS Training Center with the research, development, and execution of training to support NWS employees’ ability to provide IDSS.

The duties of this position are:

1) Develop expertise in the methods and delivery of Impact-Based Decision Support Services (IDSS).
2) Develop skills in creating effective adult learning strategies for in-person and distance learning coursework.
3) Participate in IDSS simulations and exercises with NWS employees and core partners to study the effectiveness of IDSS communication methods.
4) Perform related duties as assigned to support the development and delivery of IDSS training.
5) Develop skills in distance learning and communications software including Articulate, PowerPoint, and Adobe.
6) Review technical and professional publications, and attend seminars to stay abreast of current developments in meteorological, hydrological, and IDSS applications.
7) Attend meetings and professional conferences to understand new meteorological, hydrological, and IDSS applications and interact with the operational community.

The minimum qualifications for the position are:

1) A Master’s Degree in Meteorology, Atmospheric Science, or related area;
2) Or a Bachelor’s Degree in Meteorology, Atmospheric Science, or related area and at least three years’ experience in operational meteorology, operational hydrology, applied research, or emergency management;
3) Emphasis will be placed on applicants with experience in: operational forecasting, science communications, and adult education.
This is a dynamic position which requires excellent interpersonal communication skills. The successful applicant will be self-motivated, skillful at time and project management, and have a willingness to learn. Applicants should identify expertise with any of the following areas:

- Operational forecasting,
- Providing decision support information,
- Social Science,
- Adult education, and
- Experience with emergency management or similar fields.

Please also indicate experience with National Weather Service systems and commercial software applications specifically Dreamweaver, Articulate, PowerPoint, and other graphic design programs and software.

Normal working hours will be observed except for occasional irregular hours during the execution of simulation-based residence courses and workshops. The successful candidate will receive training in both NWS and FEMA curriculum, interact with NWS employees from all over the country, and gain expertise in delivering meteorological and hydrological information via decision support services. This position is located in Kansas City, MO.

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists/hydrologists, and NWSTC management. The incumbent will work under general supervision, but is expected to determine action to be taken in handling all but unusual situations. Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.

Beginning salary is based on experience and qualifications. The position is a **limited-term 18-20 month** appointment and has the standard university insurance benefits but does not include retirement.

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: NWSTC IDSS

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
Preparing to Apply for the Ford Foundation Fellowship:
A Workshop for PhD Students and Postdocs

October 30, 2018
7:00 – 8:00 pm
Location: WALC 2007

Learn how to Prepare a Competitive Application

The Ford Fellowship focuses on diversity in academia by providing funding for students who aspire to become university faculty researchers and teachers. Doctoral students in a variety of disciplines are encouraged to apply. Preference is given to applicants who have experience teaching, volunteering, or otherwise engaging with diverse communities.

Eligibility Requirements:
- U. S. citizens, U.S. nationals, U.S. permanent residents (holders of a Permanent Resident Card), as well as individuals granted deferred action status under the Deferred Action for Childhood Arrivals Program (DACA) program¹, political asylees, and refugees, regardless of race, national origin, religion, gender, age, disability, or sexual orientation
- Individuals committed to a career in teaching and research at the college or university level in a research-based field of science, social science, or humanities

Predoctoral Fellowship:
- Open to PhD students with four or more years left before graduation as of Fall 2018; fellowship provides a stipend for three years

Dissertation Fellowship:
- Open to PhD students who plan to graduate in May or August 2019; fellowship provides funding for their final year

Postdoctoral Fellowship:
- Open to PhD students graduating in December 2018 or current postdocs; fellowship provides one year of support

Sign up Here:
2019 College of Science
Graduate Student
International Travel Awards

Application Submission Deadline: 4:00 PM November 17, 2018

For travel between January 1, 2019 and June 30, 2019

~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within the Department in the College of Science

• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu
ARM Data Quality Office – Research Associate

The Cooperative Institute for Mesoscale Meteorological Studies at the University of Oklahoma is seeking a Research Associate with strong attention to detail and excellent programming skills to join the U.S. Department of Energy’s (DOE) Atmospheric Radiation Measurement (ARM) Program Data Quality (DQ) Office located in the National Weather Center at the University of Oklahoma in Norman, Oklahoma. The DQ Office Supports the ARM Program by serving as the first line of defense in discovering data quality issues with the final goal of providing the science community with the highest quality data possible. The primary responsibilities of the DQ Office are, in close cooperation with ARM instrument mentors, site operators, and other members of the ARM infrastructure, to create automated processes for inspection and assessment of data quality, inspect and assess the data, report detected problems and participate in their resolution, and communicate data quality findings to end-users of ARM data. Members of the DQ Office are active in many different areas of the data flow process, such as enforcing standards for data products, creating the software necessary to visualize and quality control the data, and helping to convey information about known problems to data users.

The duties of this position are:

- Develop software for displaying, inspecting, and assessing ARM data
- Help maintain and improve our web-based tools http://dq.arm.gov
- Work with ARM personnel to improve and develop new data quality analysis techniques and visualizations
- Facilitate problem resolution and communication of data quality problems with ARM infrastructure
- Mentor undergraduate student analysts who assist in the analysis of ARM data
- Participate in relevant data quality research projects as opportunities arise
- Represent the DQ Office at meetings and conferences
- Perform related duties as assigned

The minimum qualifications for this position are:

- M.S. in atmospheric science, earth system science, meteorology, or related field
- Strong computer programming skills, particularly in command-line Linux environments

Preference will be given to applicants with:

- Knowledge, experience, or previous education focusing on meteorological instrumentation, atmospheric chemistry and/or aerosols, radar, lidar, or atmospheric fluxes
- Experience or familiarity with meteorological or model data analysis, including scientific data formats such as netCDF, HDF, or GRIB
- Experience performing data analysis and visualization with Python; consideration will also be given for work done with other languages such as IDL, Matlab, Perl, or R
- Knowledgeable in new and emerging programming techniques, such as machine learning or big data analysis
- Experience with revision control systems such as Git or SVN
- Experience with web programming (Javascript, PHP, HTML, CGI, etc.)

The beginning salary will be competitive for this position, and will be dependent on experience. The University of Oklahoma provides a generous benefits package. Information on benefits may be found at https://hr.ou.edu/Employees. The position will remain open until a suitable candidate is identified.

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  
Job Requisition – ARM Data Quality

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
Jill Hruby Fellowship

Seeking Applicants!

We are now accepting applications for the 2019 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 (10/1/2019)
- Evidence of strong academic achievement, excellent technical accomplishment, leadership and ability to team effectively
- No previous postdoctoral appointments at a national laboratory (internships excluded)
- Research in areas relevant to national security
- Ability to obtain and maintain a DOE security clearance, which requires US citizenship

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 Jill 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
Jill Hruby Fellowship Program

The Jill Hruby Fellowship Program recognizes and honors the achievements of Jill Hruby who served as President and Director of Sandia National Laboratories from 2015 to 2017, spent 34 years at Sandia, and was the first woman to be appointed director of a large multidisciplinary national security laboratory. The Fellowship’s purpose is to attract and recruit women in engineering and science fields interested in technical leadership careers in national security. All qualified applicants will be considered for the Fellowship.

Selection will be based on a comprehensive application and interview process. Special attention will be given to recruiting and attracting outstanding women with demonstrated academic achievement and leadership capabilities. The intent is that over time, this Fellowship will become a nationally recognized program that will attract top talent to Sandia and may serve the DOE complex and the nation.

Program Design

As postdoc employees of Sandia, Jill Hruby Fellows will conduct independent research and development that supports Sandia’s purpose: to develop advanced technologies that ensure global peace. Fellows will propose their own research topic and benefit by having access to Sandia’s state-of-the-art facilities and collaborating with some of the nation’s best scientists and engineers. Fellows may work at either of Sandia’s principal locations in Albuquerque, New Mexico or Livermore, California.

A member of Sandia’s technical staff with experience/interest in the area of research proposed by the Fellow will be assigned to mentor the Fellow. This emphasis on research mentoring enables Fellows to become integral members of Sandia R&D teams while acquiring unique skills during their early career development. Candidates must have identified a mentor prior to applying. If you need assistance finding a mentor to sponsor your application, please contact the coordinator, ksmithc@sandia.gov (see item i. on page 3)

Leadership Development

In addition to technical mentorship, Fellows will participate in a unique leadership development program that will prepare them for career advancement as recognized leaders in their field or institution. For example, fellows will:

- Participate in a Leadership Development Program. The skills and lessons of the program are built around four key themes:
  - Understanding character and values and the impact they have on leadership, behavior, and decision-making
  - Knowing how to think versus what to think
  - Gaining exposure to, increasing knowledge of, and building relationships with leaders, the institution, and other external entities
Applying tools for thinking, leading, and communicating with confidence and courage through changing circumstance

- Be formally mentored by the Chief Research Officer and/or the Sandia California Associate Labs Director for Division 8000. This mentorship will benefit the selected participant through:
  - Increased awareness of Sandia and its overall culture
  - Enhanced personal and professional effectiveness
  - Opportunity to develop interpersonal and work skills
  - Access to an impartial “sounding board”

- Participate in selected external leadership development symposia for technical leaders and gain exposure at the national level to policy matters related to national security by spending time at Sandia’s Washington, DC office and other sites.

- Serve as an ad-hoc member on one of the laboratories Leadership Teams, beginning second year of fellowship as an observer/listener, third year as a participant/contributor. This will allow the fellow to gain knowledge and experience in the overall management of the laboratory and the associated responsibilities that are important in the operations of the laboratory. In addition, the Fellow will develop and understand the behaviors and competencies required to operate a national security laboratory.

Requirements

Qualifications We Require
- Ph.D. conferred within the past three years or completion of Ph.D. requirements by commencement of appointment
- Evidence of strong academic achievement, excellent 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 meaningful 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 deep understanding 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

Benefits

SAND2018-8270 O
July 27, 2018
Sandia's competitive wage and benefits package for this Fellowship will include 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.

Application Procedure
The Jill Hruby Fellowship is a three-year appointment that typically will begin on October 1. The application deadline for fellows will be November 1 of the year prior to the October start date. All qualified applicants will be considered without regard to race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age, disability or genetic information or other legally protected status.

To be considered, applicants must:

- Submit a CV online to job # 662647
- Submit, in the same document as the CV, up to 10 pages describing: a research proposal* (~5 pages), and a statement (~5 pages) describing leadership experience and interest, interest in the position from a national security point of view, and long-term career plans.
- Include the following information on a cover sheet:
  a. Full name
  b. Current address, e-mail address, and permanent address for notification
  c. Telephone and/or cell numbers
  d. Title of proposed research project
  e. Title of doctoral thesis/dissertation
  f. Planned starting date of the Fellowship
  g. Ph.D. granting institution and year of receipt (or date expected)
  h. A listing of all countries of which applicant is a citizen
  i. Name of a Sandia person/organization that fits your research interest and with whom you have discussed your research interests *
- Request reference letters from three nationally recognized scientists, external to Sandia, in relevant disciplines who are knowledgeable about the candidate’s capabilities and previous research, and who have been provided a copy of the candidate’s research proposal. An additional letter from a Sandia expert is acceptable. The letters should not be included in the application itself, but should be sent by the author directly to Sandia to ksmithc@sandia.gov on official letterhead and signed by the author.
- An official copy of undergraduate and graduate transcripts must be provided directly by the university to the coordinator, ksmithc@sandia.gov.

All application materials must be received electronically by midnight Thursday November 1st 2018

*Provide a clear objective of the research, the expected results, and the impact that the proposed work may have on Sandia's technical capabilities. State the planned approach in order to clarify the direction of the research. Propose a schedule for the research and explain the importance and benefits to Sandia.
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:

- PhD awarded within the past three years at the time of application or completed PhD requirements by commencement of appointment
- Excellent academic and research qualifications
- Evidence of exceptional technical accomplishments, leadership, and ability to thrive in a dynamic, team-oriented environment
- Candidates must be seeking their first national laboratory appointment (pre-postdoc internships acceptable)
- Ability to obtain a DOE “Q” clearance, which requires US citizenship

For more information, visit:
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Dr. Jeff Bender presents the 5th annual COPPOC One Health Lecture titled, “Antimicrobial Stewardship and One Health.” Dr. Bender is a professor in the School of Public Health and adjunct professor in the College of Veterinary Medicine at the University of Minnesota. He is currently the director for the USAID funded One Health Workforce Project, a workforce development program focused on preventing, detecting, and responding to emerging pandemic threats. In addition, he is a co-director for the NIOSH funded Upper Midwest Agriculture Safety and Health Center (UMASH), a center focused on improving the health of agriculture workers and their families. His primary teaching and research interests include infection prevention, disease surveillance, emerging zoonotic diseases, occupational safety, food safety, and antimicrobial resistance.

The COPPOC One Health Lecture was established in 2014 to provide an annual campus-wide lectureship that focuses on the symbiotic relationship between veterinary and human medicine and its world-wide impact.