EAPS WEEKLY NEWSLETTER
14 October 2019

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

Facebook
Twitter
Department Magazine
Website News

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS
Tuesday’s - 3:00 PM
HAMP 3201

October 22
November 12
November 19
December 3 (tentative)

EAPS K-12 OUTREACH CALENDAR OF EVENTS

http://www.eaps.purdue.edu/outreach/Outreach_News.html

DEPARTMENT NEWS

EAPS COLLOQUIA

Wen-Yih Sun
Purdue University
Thursday, October 14, 2019
3:30 PM
HAMP 1252

[See attached flier for more information]

DR. WEN-YIH SUN RETIREMENT CELEBRATION

Please join us as we celebrate the career and celebration of Dr. Wen-Yih Sun this Thursday, October 17 after his seminar talk.

Thursday, October 17
5:00 pm
Stacked Pickle

[Flier attached with complete details]

http://www.eaps.purdue.edu/
EAPS SOCIAL MEDIA

Sarah Sams will be taking over the EAPS social media for at least the semester, while the department searches for a new Communications Manager since Logan is now working in the Honors College.

If you have anything you want shared on social media (pictures, outreach, publications, etc.), please email them to Sarah (samss@purdue.edu) And she will post them. Also, if you think anyone’s work/outreach should be highlighted, please also let her know. Sarah is looking forward to showing off all that the EAPS department is involved in!

If you don’t follow the department already, below are the links to the respective sites.
Facebook: https://www.facebook.com/EAPSPurdue/
Twitter: https://twitter.com/PurdueEAPS
Instagram: https://www.instagram.com/purdue.eaps/

CIMMS RESEARCH ASSOCIATE AT THE STORM PREDICTION CENTER - POSITION #2

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Associates to work with the NOAA/NWS Storm Prediction Center (SPC). These positions will be located at the SPC in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work directly with development meteorologists and operational forecasters at the SPC and will have opportunities to interact with NOAA and academic scientists within both the NWS and the broader meteorological community.

[See attached flier for more information]

FACULTY POSITION IN ATMOSPHERIC CHEMISTRY AND/OR DYNAMIC METEOROLOGY

The University of Oklahoma (OU)’s School of Meteorology invites applications for a tenure-track faculty position at the Assistant Professor level to begin in the academic year of 2020-2021. The School is seeking candidates with a research focus in one or more of the following areas: observations of atmospheric composition; atmospheric dynamics of weather systems at any scale. Candidates with expertise on related topics are also encouraged to apply. Applicants must demonstrate an exceptional potential to establish a strong research program in atmospheric science. Equally important, they must have a commitment to excellence in teaching and mentoring at the undergraduate and graduate levels, as well as to diversity, inclusion, and equity, plus a strong desire to participate in service to the School, University, and atmospheric science community. Applicants should have completed their PhD by the time of appointment.

[See attached flier for complete information]
Assistant Professors in Meteorology and Physical/Coastal Oceanography

The Department of Ocean Engineering and Marine Sciences at the Florida Institute of Technology invites applications for two tenure-track faculty positions in Meteorology and Physical/Coastal Oceanography with an expected starting date in August 2020. The positions are posted at the assistant-professor level, but exceptional candidates with appropriate levels of experience may be considered for appointment at the associate level.

The successful candidate for the Meteorology tenure track should have expertise in one or more of the following areas: coupled ocean-atmosphere modeling, land-atmosphere modeling, and observations using satellite data; radar meteorology; tropical/mid-latitude meteorology; atmospheric electricity; boundary-layer meteorology; and data analysis and assimilation. Skillsets such as coupled-WRF modeling will be a plus.

The successful candidate for the Physical/Coastal Oceanography tenure track should have expertise in one or more of the following areas: coupled land-air-sea modeling, air-sea interactions and ocean-atmosphere boundary layer, coastal oceanography and meteorology, observations using satellite data, and data assimilation. Skillsets such as coupled-WRF modeling or COAWST will be a plus.

[CIMMS Postdoctoral Research Associate Cloud Physics]

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Postdoctoral Research Associate position for projects funded by the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), the Department of Energy (DOE) and the National Oceanic and Atmospheric Administration (NOAA). The Postdoctoral Research Associate will participate in and analyze data from experimental field projects seeking to obtain a better quantitative knowledge of the microphysical properties of clouds, to better understand cloud processes and to represent them in weather and climate models.

[See attached flier for more information]

Open Rank Professor of Earth and Planetary Sciences

The Department of Earth and Planetary Sciences at Washington University in St. Louis invites applications for a tenure-track or tenured faculty position at the assistant, associate, or full professor rank, commensurate with experience, in the field of planetary science. The candidate is expected to perform research in the broad area of planetary surfaces and processes, have or seek active involvement in planetary science missions, and eventually assume leadership of the NASA Planetary Data System Geosciences Node at Washington University. The ideal candidate will employ quantitative tools and will integrate computational approaches with remotely sensed observations.

The successful candidate is expected to develop a vigorous, externally funded research program, maintain a strong publication record, advise students, provide outstanding teaching of undergraduate and graduate courses, and participate actively in departmental governance and university service. We seek candidates who will strengthen existing research programs in planetary science and remote sensing, as well as foster collaboration with scholars across the Washington University community.

[See attached flier for more information]

2020-21 Call for Applications UC President’s Postdoctoral Fellowship Program

Call for Applications

THE PROGRAM. The University of California President’s Postdoctoral Fellowship Program was established in 1984 to encourage outstanding women and minority Ph.D. recipients to pursue academic careers at the University of California.

http://www.eaps.purdue.edu/
The current program offers postdoctoral research fellowships and faculty mentoring to outstanding scholars in all fields whose research, teaching, and service will contribute to the diversity and equal opportunity at the University of California. The contributions to diversity may include public service towards increasing equitable access in fields where women and minorities are underrepresented. In some fields, the contributions may include research focusing on underserved populations or understanding inequalities related to race, gender, disability or LGBT. The program is seeking applicants with the potential to bring to their academic and research careers the critical perspective that comes from their non-traditional educational background or understanding of the experiences of members of groups historically underrepresented in higher education in the United States.

**AWARDS AND APPOINTMENTS.** Fellowships are awarded for research conducted at any one of the University of California’s ten campuses. The award includes a salary starting at approximately $50,760 depending on field and experience, benefits including health insurance and paid vacation/sick leave, and up to $5,000 for research-related and program travel expenses. Each award is for a minimum of 12-months and may be renewable for an additional term upon demonstration of academic/research productivity.

**ELIGIBILITY.** Applicants must receive a Ph.D. or terminal degree from an accredited university before the start of their fellowship. Successful applicants must present documents demonstrating that they are legally authorized to work in the United States. Individuals granted deferred action status under the Deferred Action for Childhood Arrivals program are encouraged to apply.

**APPLICATION.** Apply online at: [ppfp.ucop.edu](http://ppfp.ucop.edu)

**DEADLINE:** November 1, 2019

**POSTDOCTORAL FELLOW**

Position Term: 1-Year, with the possibility of extension. This position is available for a qualified applicant to start right away.

Relocation: No relocation package is offered for this position.

Work Authorization: UCAR | NCAR can sponsor a work visa for this position.

Where You Will Work:
Located in Boulder, Colorado, the National Center for Atmospheric Research (NCAR) is one of the world’s premier scientific institutions, with an internationally recognized staff and research program dedicated to advancing knowledge, providing community-based resources, and building human capacity in the atmospheric and related sciences. NCAR is sponsored by the National Science Foundation (NSF) and managed by the University Corporation for Atmospheric Research (UCAR).

Formed in 2005, the Earth Observing Laboratory (EOL) the is one of the seven laboratories of NCAR, the National Science Foundation’s Federally Funded Research and Development Center. EOL’s mission is to provide leadership in observing facilities, field project support as well as research and data services needed to advance the scientific understanding of the Earth system. EOL manages the majority of NSF’s Lower Atmosphere Observing Facilities (LAOF) and deploys them in support of observational field campaigns, ranging from single investigator projects to large complex campaigns that involve multiple investigators, agencies, and platforms, nationally and internationally. EOL deploys its systems for research by scientists from universities, NCAR, and government agencies, as well as for education. An integral part of EOL’s mission is to develop the next generation of LAOF and to provide management and archiving of data from past supported campaigns. In order to ensure

**STUDENT IS LOOKING FOR TUTORING HELP WITH EAPS 112**

Looking for a tutor to help student athlete with EAPS 112. Required that this tutor have taken the course and received at least a B+ or higher and have an overall GPA of 3.0. Interested individuals should contact the tutor coordinator for athletics, Candace Britten (cbritten@purdue.edu), 494-4899, Brees Academic Performance Center, Room 206.
progress in the atmospheric sciences, EOL supports a wide-range of research areas within the Earth system science, ranging from microscale to mesoscale to climate process studies, and employs LAOF platforms and systems that reach from the surface of the Earth to the lower stratosphere and beyond.

EOL’s Remote Sensing Facility’s (RSF) mission is to serve the observational needs of the atmospheric science community by developing and deploying state-of-the-art radar and lidar instrumentation. RSF is committed to providing and analyzing cross-cutting measurements in interdisciplinary research thereby continuing EOL’s leadership in the discipline of remote sensing. The combination of ground-based scanning and airborne remote sensors provides measurements of atmospheric parameters essential for realization of the societal and scientific benefits outlined in the EOL Strategic Plan. These high-resolution, large-domain, remotely-sensed observations of clear air and precipitation are otherwise unobtainable.

Please see link for additional information: https://ucar.wd5.myworkdayjobs.com/en-US/UCAR_Careers/job/Foothills-Lab/1/Postdoctoral-Fellow-I_REQ-2019-14-1

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**PAN POST-DOCTORAL RESEARCH FELLOWSHIP**

The Department of Earth, Environmental and Planetary Sciences at Rice University is inviting applications for the Pan Postdoctoral Research Fellowship.

The application **deadline is November 1, 2019**. For this post-doctoral fellowship advertisement and other post-doctoral opportunities, you can also visit - [https://earthscience.rice.edu/home-page/open-positions/](https://earthscience.rice.edu/home-page/open-positions/)

We encourage candidates with interests in broad areas of solid Earth and planetary processes, interior-surface connections, and planetary habitability to apply.

Department of Earth, Environmental and Planetary Sciences, Rice University is seeking candidates with independent research interests that intersect with one or more faculty within our department. Both domestic and international applicants are welcome. A Ph.D. is required at the time of appointment, but candidates must have received their Ph.D. no more than 3 years before their start date at Rice.

The research fellowships will be supported for two years, pending satisfactory progress during the first year, and covers an annual stipend of $60,000 with a benefits package and an additional annual discretionary research allowance of $3,500. Applicants are requested to develop a proposal of research to be undertaken during the fellowship period. The principal selection criteria are scientific excellence, a clearly expressed research plan to address questions at the forefront of their field of study, and research synergies with at least one faculty. The proposed research should, however, encompass independent research ideas and explore new directions beyond the applicants Ph.D. Preference will be given to applicants whose proposals demonstrate independence and originality, and also the potential for collaboration with one or more faculty in the Department of Earth, Environmental and Planetary Sciences.

The **application is due on 1 November, 2019** at [http://jobs.rice.edu/postings/21282](http://jobs.rice.edu/postings/21282).

The application should include the following documents:

(1) A current CV, including a list of publications.
(2) A brief synopsis of the applicants doctoral dissertation (less than one page).
(3) A concise research proposal (no longer than three pages, including figures, excluding references) describing the applicants research interests, specifically the research that the applicant would like to pursue at Rice University.
(4) The names of potential Rice faculty who could serve as postdoctoral mentors for the applicant.
(5) The names and email addresses of at least three references to write recommendation letters.

The highest ranked applicants will be invited to visit Rice in early 2020. Following acceptance, the appointment may begin anytime before January 1, 2021. For further information or questions contact the chair of the search committee at esci-postdoc@rice.edu.

Rice University is located in Houston, Texas, and is a private, coeducational, nonsectarian university.
that aspires to path-breaking research, unsurpassed teaching, and contributions to the betterment of our world. Rice fulfills this mission by cultivating a diverse community of learning and discovery that produces leaders across the spectrum of human endeavor.

Rice University is an Equal Opportunity Employer with commitment to diversity at all levels, and considers for employment qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national or ethnic origin, genetic information, disability or protected veteran status.

**WINTER DTA SCIENCE FELLOWSHIP OPPORTUNITY**

Program: The Data Incubator is an intensive 8 week fellowship that prepares masters students, PhDs, and postdocs in STEM and social science fields seeking industry careers as data scientists. The program is free for Fellows and supported by sponsorships from hundreds of employers across multiple industries. In response to the overwhelming interest in our earlier sessions, we will be holding another fellowship.

Who Should Apply: Anyone who has already obtained a masters or PhD degree or who is within one year of graduating with a masters or PhD is welcome to apply. Applications from international students are welcome. Everyone else is encouraged to sign-up for a future session.

Locations: In addition to the below in-person locations, we will have a remote online session:

- New York City
- San Francisco Bay Area
- Boston
- Washington, DC.

Dates: All sections will be from 2020-01-13 to 2020-03-06.

Application Link: https://www.thedataincubator.com/fellowship.html#apply?ref=wZXRoaWNzQHB1cmR1ZSU2ZHU


We are assessing and interviewing candidates who apply for the Early Deadline first and then based on remaining availability, will take candidates who applied for the Regular Deadline on a first-come first-serve basis.

**Data Science in 30 minutes:** Learn how to build a data-science project in our upcoming free Data Science in 30-minutes webcast. Signup soon as space is limited.

Learn More: You can learn about our fellows at The New York Times, LinkedIn, Amazon, Capitol One, or Palantir. To read about our latest fellow alumni, check out our blog. To learn more about The Data Incubator, check us out on Venture Beat, The Next Web, or Harvard Business Review.

**UNIVERSITY OF MISSOURI GEOLOGY FIELD CAMP**

The University of Missouri Geology Field Camp is located in Sinks Canyon within the Shoshone National Forest, 7000 feet high in the Wind River Range, 9 miles south of Lander, WY. The facility is housed in log buildings, including dormitories for men and women, a well-equipped computer laboratory/classroom with satellite internet access, a student lounge and a large dining hall.

In-state tuition for all applicants, Estimated total cost (includes all tuition and fees) for summer 2020 is $4,500.

Wind River Range, Wyoming
May 24-July 4, Summer 2020

[See attached flier for complete information]

**PURDUE APPLIED MICROBIOME SCIENCES (PAMS) FALL 2019 SEMINAR SERIES**

10.18.2019/10/am/CRTN 1042: Andres Gomez, University of Minnesota Contact: Tim Johnson – john2185@purdue.edu

Intra- and Interspecies Gut Microbiome Dynamics in Primates: Lessons in Ecology and Evolution

10.31.19/3:30/pm/HORT 117: Alejandro Rodriguez Sanchez, Purdue University Contact: Lori Hoagland –lhoaglan@purdue.edu

Interactions between Wastewater and Crops: Benefits and Disadvantages Focusing on Microbial Communities (HLA Seminar Series)

http://www.eaps.purdue.edu/
DATA SCIENTIST POSITION

DTN is a global leader providing insights and analytics to our customers who feed, protect, and fuel the world. The data science team at DTN currently has an opening for an individual with a passion for learning and solving challenging problems.

As part of the team you will:

- Gain experience in all areas of data science
- Tackle a wide variety of problems in weather, agriculture, energy, and finance
- Explore our unique, proprietary datasets to find solutions to meaningful problems
- Work in a professional environment with passionate coworkers

Responsibilities:
- Quick feasibility checks with go/no-go recommendations
- Data exploration to identify and advance insight solutions
- Data cleaning
- Model development to support production solutions
- Visualization generation
- Outcome presentation to senior leadership
- Model evaluations and recommendations

Requirements:
- Machine Learning Experience (Supervised/ Variety of Techniques)
- Python Programming Experience
- Experience with some of the common machine learning toolkits:
  - Scikit-Learn, Numpy, Scipy, Pandas, Matplotlib, Tensorflow, Keras
- Mathematics/Probability/Statistics Understanding
- MS/PhD in math, CS, engineering, or related field
- 2+ years of relevant experience in a data science or machine learning role
- Evidence of past projects or experience may be considered in lieu of formal work experience
- Independent, Self-Directed
- Fast learner
- Good Communication Skills
- Experience building weather-driven models a plus

Why DTN?

EAPS PODCAST INTERVIEWING FACULTY

We have officially started the “Superheroes of Science” podcast and it should now be on your favorite podcast player!

In each episode Steven Smith and Sarah Nern interview different faculty researching in the various fields of science or education. Give it a listen and discover what others are currently researching and how they first got involved in science. Some episodes will discuss current topics for today’s K-12 science classroom.

Subscribe, review, and share the podcast to help us get the word out

You can find the podcast on your favorite Podcast hosting site under Superheroes of Science or use one of the quick links below


Google Play: https://play.google.com/music/m/I5fqneaqydthqpm27kmkcbuem?t=Superheroes_of_Science

Podbean: https://www.podbean.com/podcast-detail/vbczx-9e60c/Superheroes-of-Science-Podcast

Sticher: https://www.stitcher.com/s?fid=458999&refid=stpr

Blubrry: https://www.blubrry.com/purdue-science/

Libsyn: https://directory.libsyn.com/shows/view/id/purdue

http://www.eaps.purdue.edu/
OUR VISION: To be the independent, trusted source of insights to our customers who feed, protect, and fuel the world.

OUR MISSION: Empower our customers with intelligent and actionable insights that exceed their expectations and enable their success on a daily basis.

OUR VALUES: Customer Delight, Education, Teamwork, Colleague Focus, Innovation, Integrity

We have great benefits at DTN – apply today to find out more!

DTN is an Equal Opportunity Employer
Minorities/Women/Veterans/Disabled

For complete information go to: https://workforcerenow.adp.com/mascr/default/mdf/recruitment/recruitment.html?cid=3cb8097c-1afa-4a4e-958e-7a3524dcbefa&ccld=19000101_000001&jobid=291539&lang=en_US&source=CC4

POST-DOCTORAL SCHOLAR POSITION

The Department of Civil and Environmental Engineering and Earth Sciences (CEEES) at the University of Notre Dame, in partnership with the Environmental Change Initiative at the University of Notre Dame, and the University of Illinois at Urbana-Champaign, seeks to hire a postdoctoral scholar to conduct foundation research on South Asian Monsoon dynamics using high-resolution climate models.

For complete information please go to: https://environmentalchange.nd.edu/opportunities/employment/

STUDENT-RUN GRIEF AND LOSS GATHERING

Actively Moving Forward is a student run organization focused on providing support to Purdue students experiencing grief. We meet bi-weekly to share our experiences and be comfortable with our grief. We would like all students going through this painful process to have access to our group and support. It is likely that grieving students will talk to academic advisors about loss first, so we would like to provide resources to help advisors meet the needs of their students.

[See flier attached for more information]

FIELD TECHNICIAN POSITION AT THE NEW YORK STATE MESONET

The New York State Mesonet (nysmesonet.org) is currently seeking to hire a Field Technician. This is a good position for someone who enjoys field work and instrumentation, though some field experience is required. Details and link below: https://rfhr.interviewexchange.com/jobofferdetails.jsp;jsessionid=454124CFBEE47A0B0E8965AB8DE45E33?JOBID=113320

MULTIPLE OPENINGS AT NCICS ASHEVILLE

NCICS is currently seeking candidates for the positions listed below. The current postings are available below and also at this link:

- **Research Associate (Climate Data Analyst)**
  The Research Associate (Analyst) will independently support, develop, design, and/or execute moderately complex research activities involving large scale environmental data sets; participate in the scientific analysis of re-analyzed data sets to improve data quality and advance the interpretation of in situ and remotely sensed observations; independently perform climate data collection and analysis; and participate in formulating research methods approaches, suggesting options for quality improvement and solutions.

- **IT Network Administrator**
  The IT Network Administrator will design, implement, and manage computing and networking infrastructure to support a variety of programs and research efforts. This position is responsible for the performance, integrity, and security of Institute IT hardware, software and data holdings. The IT Network Administrator is also involved in planning, development, and troubleshooting and advises management on IT concepts, functional capabilities, parameters, and prototypes.
- **Research Scholar – Software Engineer**
The Software Engineer will provide expertise in scientific programming and data analytics to address the software engineering needs of the Institute's Climate Assessment activities.

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**OPERATIONAL METEOROLOGIST JOB OPENING AT SOUTHERN CALIFORNIA EDISON**

Southern California Edison is looking to hire new advisor level operational meteorologist. If you are interested, please follow the link to apply:

Job link: https://www.edisoncareers.com/ShowJob/Id/719936/Meteorology%20Advisor

**Job Description**

Are you looking for a diverse team of inventors, pioneers, and problem solvers working together? Look no further.

We want team members who want to invest their skills and intellect into something that matters—like solving one of the most important issues of our time. It’s what we do. Powering the planet while drastically reducing carbon emissions and creating cleaner air for everyone. You’re a critical piece of the solution.

As we look onto creating a cleaner energy future, our customer needs are also changing and as part of our Business Resiliency organization you will have an opportunity to help us support this effort.

**The Job.....**

This position will support the Weather Services group within Business Resiliency. The position will be responsible for blue sky operational support for the Situational Awareness Center and incident operational support when Emergency Operating Center is activated for gray and black sky conditions.

You will also be responsible for developing tools and models to aid in forecasting accuracy and fidelity. Additionally, the position will also be responsible for operational forecasting support for the procurement of energy within the Energy Procurement and Management organization.

**Detailed things you will be doing.....**

- You develop and implement procedures to monitor, analyze and produce short, medium and long-range weather forecasts and reports for situational awareness from the Situational Awareness Center (SA-Center). This could be during day-to-day operation and leading up to and during times of Incident Management Team Activations.
- Work closely with the Watch Office to inform reports to executives and send alerts about extreme weather to grid operations and other affected organizations across the company.
- Project manager for complex projects – specifically, projects aimed at the mitigation of asset failure due to weather, fires and climate impacts.
- Lead projects with multiple work streams or complex tasks and provides direction to more junior staff in development and execution of situational awareness tools, fire prevention and monitoring, hazard modelling, and climate adaptation efforts etc.
- Ensures timely development of products needed to support the SA-Center, Business Resiliency and Operations. Reviews work product and mentors more junior team members.
- Supports the Energy Procurement and Management (EPM) organization through the operation, testing, and maintenance of quantitative forecasting, modeling and analysis tools, to produce data to support power procurement transactions, hedging, position management, regulatory reporting, bidding and resource optimization in energy markets.
- Reviews and provides guidance on the work of more junior staff.
- Maintains proficiency in and influences company operations through weather monitoring, forecasting and reporting.
- Works with the lead Meteorologist to identify requirements and opportunities for the team to work and train in the field with key stakeholders to maintain proficient knowledge of company operations.
- Works and trains with people in the field and key stakeholders from multiple organizations across the company to understand and learn about equipment, assets and business functions across the territory.
- Use knowledge to develop tools aimed at improving operational support.
- Routinely interacts with T&D Grid Operations, field operations and Fire Management personnel.
to gain and maintain knowledge of grid systems and develop relationships with field personnel and external stakeholders;
- Provides subject matter expertise and consults on projects across the company and internal to Business Resiliency.
- Develops relationships and key partnerships with meteorology, scientific and technology communities to align and continuously improve in-house weather forecasting skills, statistical weather forecasting models and information and tools need to support operations.
- Continuously improves in-house weather forecasting skills and statistical weather forecasting models; Works with vendors on improving their weather forecasting services;
  - Completes own work independently;
  - Works with the scientific community to maintain up to date expertise on state of the art modeling and empirical weather related monitoring technologies.
  - Maintains proficiency in the use of all existing weather related technical tools and explores and implements new technical solutions used at SCE

Qualifications we need you to have.......  
- Bachelors or Master’s degree in meteorology, atmospheric sciences or a related technical area of study.
- Seven years of experience in weather forecasting and analysis
- Experience communicating how extreme weather events effect the environment.

Other qualifications that will set you up for success.....  
- Experience using GIS systems and programming in languages such as python and matlab
- Graduate degree in meteorology, atmospheric sciences or a related technical discipline
- Ten years of academic or work experience in weather forecasting and statistical analysis.
- Experience integrating various weather outlooks and briefing users on uncertainties and impacts.
- Experience forecasting one to seven-day ahead surface temperature and forecasting weather utilizing a wide variety of observational and model data, both at surface and upper air.
- Experience analyzing renewable power production (wind, solar, hydro) and how weather impacts those resources.

- Extensive knowledge of NWS system and demonstrated experience using National Oceanographic and Atmospheric Administration (NOAA) products.
- Ability and experience with configuring and running WRF model.
- Experience performing statistical analysis and modeling.
- Experience using SAS, R, or other tools for statistical analysis and forecasting.
- Weather forecasting experience for California and the Western United States.
- Experience forecasting for conditions pertaining to or around wildfires.
- Experience with long-term (month ahead or more) weather forecasting.
- Electric/Gas Utility work experience.
- A broad understanding of power markets and the related regulatory requirements that govern SCE’s participation in them by assisting strategy development to increase the value of SCE resources and lower customer costs.
- Fire weather forecasting experience.
- Experience preparing findings and presenting complex technical information to technical and nontechnical audiences.
- Experience using SAS, R, or other tools for statistical analysis and forecasting.
- Weather forecasting experience for California and the Western United States.
- Experience forecasting for conditions pertaining to or around wildfires.
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- Experience preparing findings and presenting complex technical information to technical and nontechnical audiences.
- Experience using SAS, R, or other tools for statistical analysis and forecasting.

Comments
- You are legally authorized to work directly as employees for any employer in the United States without visa sponsorship.

- We offer a Total Rewards Package that includes things like a wide selection of health plans, preventative health reimbursement, 401(k) savings plan with company match and automatic company contributions, tuition reimbursement, professional development, volunteer programs, employee assistance program, electric service discount, and many more perks!
- Relocation may be offered for this position

JILL HRUBY FELLOWSHIP

Accepting applications for the 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 technical leadership careers in national security. All qualified applicants will be considered for this fellowship.

For more information, please visit: https://tinyurl.com/HrubyFellowship

**Deadline: November 1 at midnight.**

[For more information see attached flyer]

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**PRESIDENT HARRY S. TRUMAN FELLOWSHIP**

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 to have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

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

**Deadline to apply is November 1 of each year and the fellowship normally begins on October 1 of the following year.**

{See attached flyer for more information}

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**METEOROLOGIST IN SILVER SPRING, MD**

This position is located in the National Weather Service (NWS), Analyze, Forecast and Support Office (AFSO), Analyze and Mission Support Division (AMSD), Analysis and Nowcast Branch (ANB) with one vacancy in Silver Spring, MD.

As a Meteorologist, you will perform the following duties:

Serve as a technical authority on validating various tools and models pertinent to the Analysis and Nowcast for the ANB.

Collect, process and analyze forecast field’ needs and help develop them into requirements to identify and fill gaps in analysis and short-term (0-18 hour) forecasting.

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**ASSOCIATE SCIENTIST, EARTH SCIENCES**

Entry level MS position supporting GPM at NASA Goddard.

In this position, the researcher will conduct research to advance ground validation activities for the NASA Global Precipitation Measurement (GPM) mission. The research will fall into three task areas: (a) characterizing uncertainties in satellite and ground-based (radar, dense gauge networks) rainfall estimates over a broad range of space/time scales; (b) using data from synergistic missions/sensors (e.g. SMOS, SMAP, GRACE, MODIS) to characterize correct detection or false alarms in GPM products; and (c) characterizing uncertainties in hydrologic models and understanding propagation of input uncertainties

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**POSTDOCOTRAL RESEARCH ASSOCIATE I**

Seeking Postdoctoral Researcher(s) to work on NASA funded projects to further develop data assimilation capabilities with the Community Land Model using the Data Assimilation Research Testbed to improve our understanding of the global carbon cycle. This position will be located at the national Center for Atmospheric Research in Boulder, CO.

Details here: https://uacareers.com/postings/37793.
into model forecasts. The research involves work on retrospective regional analysis, retrospective global analysis, and real-time global analysis. The researcher will leverage existing open-source modeling platforms including NASA’s Land Information System (LIS) to conduct these analyses.

Details here: https://usra-openhire.silkroad.com/e postings/index.cfm?fuseaction=app.jobinfo&jobid=907&version=1#.X N6VW hyg8fo.twitter

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**KAVLI CIVIC SCIENCE FELLOW**

Are you passionate about civic science, including science outreach, communication, and public engagement? We, a collaboration of scientific societies, are looking for someone to lead an initiative that will increase the support and incentives for scientists who incorporate civic science into their work. The Kavli Civic Science Fellow is an ideal position for someone who has experience in civic science and is looking for an opportunity to think more broadly about advancing the field. This fellowship presents a remarkable opportunity to work with leaders across multiple scientific societies, while ultimately, influencing the culture of science and its relevance to society.

The American Society for Cell Biology (ASCB), the American Association for the Advancement of Science (AAAS), the American Geophysical Union (AGU) and Research!America are partnering to support the work of a Kavli Civic Science Fellow who will work across multiple scientific societies to connect, and advance the societies’ collective support so that scientists are empowered to undertake civic science activities. As part of their work, the Kavli Civic Science Fellow will follow a collective impact model that will rely on strategizing, data collection, and analysis and team building. The goal of the fellowship is to lay the groundwork for a more cohesive whole among societies, as they work towards influencing long-term culture change within the scientific enterprise to increase value and support for meaningful civic science engagement. This position is an 18-month fellowship.

The Kavli Civic Science Fellow will have the opportunity to shape the activities of the fellowship, with leaders from multiple scientific societies, to meet this larger goal. By working with a wide range of scientific societies, the Kavli Civic Science Fellow along with the scientific societies will set a common agenda, which establishes an agreed understanding of the problem and a shared vision of change. They will then work to establish common progress measures and mutually reinforcing activities.

Some of the activities that may be undertaken by the Kavli Civic Science Fellow in collaboration with representatives from the scientific societies may include:

- Conduct a landscape assessment of scientific societies’ visions, goals, capabilities, programs and opportunities related to civic science.
- Recommend ways in which scientific societies can leverage their strengths and authorities to encourage academic and funding institutions to provide deeper support for civic science—including altering their incentive structures.
- Highlight existing resources and speed the development of new resources that support scientific societies’ planning, implementation, and evaluation of civic science, including resources that societies make available to their members.
- Increase collaboration among scientific societies to accomplish work at the grassroots level and to find efficiencies in the existing system and leverage these efficiencies to better support societies of varying sizes and scales that want to encourage their members to do effective civic science engagement.

The candidate will also be part of the inaugural class of Civic Science Fellows. The Fellowship will embed emerging leaders from diverse backgrounds in organizations working at the many interfaces of science and society. Additional fellows will be hired by other organizations later this year. The benefits of being a Civic Science Fellow include access to a network of Fellows at other institutions, professional development in subject matter as well as leadership skills, and mentoring.
Requirements
• Master’s degree or higher in science, science communication or related field.
• Experience in an aspect of civic science: science outreach, public engagement, science communication.
• Experience in program or project management.
• Understanding of the culture of science and scientific societies or similar organizations is desirable.
• Strong written and verbal communication skills.
• Ability to work independently.
• Comfortable working with CEOs and with mid-level staff who run programs.
• Possess initiative, be entrepreneurial, and think strategically and long-term.

ASCB will be the fiscal and administrative home institution for the Fellow, who will spend time in several other societies located in the DC area in a series of 2 month rotations. This is an 18-month position. The salary for this fellowship is $80K per year plus benefits.

Please submit a cover letter with salary requirements and resume. Apply at: https://recruiting.paylocity.com/Recruiting/Jobs/Apply/118055

FACULTY AND STAFF INVITED TO GREEN ZONE STUDENT PANEL TO LEARN ABOUT MILITARY, VETERAN EXPERIENCE

About 10 years ago, when Corey Linkel was just getting started as an academic advisor at Purdue, he had a meeting with a student veteran that felt like a success at the time.

Later, after Linkel came to know the student better, the student admitted to having a different experience.

“He told me he had felt disappointed after our initial meeting, that he felt isolated and disconnected and didn’t feel like he was getting out of the advising appointment what he needed,” Linkel says. “That experience caused me to pause and rethink things. It made me realize that our military-connected students have needs that I didn’t understand as well as I needed to, and it made me want to do more to support them.”

Linkel never forgot the experience. That’s why he attended the inaugural Green Zone Student Panel last fall. The event will be offered again from 2-4 p.m. on Wednesday, Nov. 13, in Lawson, Room 1142, and faculty and staff are invited to attend. During the panel, students will share personal stories aimed toward expanding participants’ understanding of the military-connected student experience.

“Even if you think you know, even if you are a member of a military family, you have something to gain from attending,” Linkel says. “Our military-connected students are navigating some of the most difficult bureaucratic scenarios our students face. When academic advisors and other student support professionals understand those complexities, it’s good for Purdue, good for our country, and most importantly, good for the students we work with.”

The event is free, but registration is required. Individuals may register for a session online. If the session you wish to attend is not visible on the registration page, the session is full.

In addition to the semiannual student panel, the Veterans Success Center (VSC) also offers more regular Green Zone training sessions. These sessions provide Purdue faculty and staff participants with the understanding and tools necessary to better serve the roughly 400 veteran and military students on Purdue’s West Lafayette campus. A nod to the heavily fortified zone in the center of Baghdad, Iraq, “Green Zone” refers to a location recognized by veterans as a safe place.

Linkel, who now serves as associate director of undergraduate programs for the Weldon School of Biomedical Engineering, says anyone on campus who works with students should consider attending an upcoming session, the nearest of which takes place from 10 a.m. to noon on Thursday, July 25, in Krach, Room 260.

Below is a full list of upcoming Green Zone opportunities:

http://www.eaps.purdue.edu/
Green Zone: 2-4 p.m. Tuesday, Oct. 15, in Rawls, Room 2079
Green Zone Student Panel: 2-4 p.m. Wednesday, Nov. 13, in Lawson, Room 1142
Green Zone: 10 a.m. to noon Tuesday, Dec. 17, in Grissom, Room 103

“Being aware of veteran students’ needs better prepares me to work with any student who has more going on than what’s visibly on the surface, whether a student may be experiencing things such as PTSD, anxiety, or other unseen disabilities,” Linkel says. “The more I educate myself, the more I realize there’s so much more out there to learn. I encourage everyone to get the training, be supportive, and be an ally.”

Individuals who would like to participate in Green Zone training but are unable to attend the scheduled sessions may contact Jamie Richards to schedule future offerings. Staff and faculty may also visit the Veterans Success Center (part of Student Success Programs), located in the Purdue Memorial Union, Room 284.

CELEBRATIONS

Dev Niyogi  October 18

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/  Page 14 of 14
Revisiting the Parcel Method and CAPE

Wen-Yih Sun
Purdue University

Although the parcel method and the convective available potential energy (CAPE) are widely used to predict the strength and height of convection, they ignore the pressure perturbation and fail to explain strong updrafts observed in tropical cyclones and hurricanes without CAPE, or deep, strong warm downdrafts in hurricane eye-walls, tropopause folds, or downslope winds leeward of mountains. Those phenomena can be explained by the Bernoulli equation that conserves the sum of kinetic energy, potential energy and enthalpy in an inviscid fluid. Our analytic and numerical results also show how, in a moist stable environment without CAPE, updrafts and clouds can develop against negative buoyancy. Deep warm downdrafts can also form in cloud free regions or areas without significant evaporative cooling from precipitation.

Dynamics of Atmospheres and Oceans 86 (2019) 134–152
https://doi.org/10.1016/j.dynatmoce.2019.03.008
PLEASE JOIN US FOR A

Retirement Party

HONORING

Dr. Wen-Yih Sun

Thursday, October 17

Stacked Pickle

5:00/pm

Following his seminar on the same day
CIMMS Research Scientist at the Storm Prediction Center
Hazardous Weather Research (Multiple Positions)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Scientists to work with the NOAA/NWS Storm Prediction Center (SPC). These positions will work at the SPC in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work directly with development meteorologists and operational forecasters at the SPC and will have opportunities to interact with NOAA and academic scientists within both the NWS and the broader meteorological community.

As a CIMMS Research Scientist working with SPC, you will provide scientific and meteorological expertise, along with technical support for the development of advanced mesoscale hazardous weather prediction techniques. More specifically, the list below describes potential projects:

1. Developing and/or improving calibrated probabilistic forecast guidance for the prediction of thunderstorms, severe weather, and fire weather, covering the following forecast periods:
   a. Subseasonal-to-seasonal (S2S), especially Week 2
   b. Medium-to-extended range (Days 3-8)
   c. Short range (Days 1-2), using convection-allowing model (CAM) ensembles
   d. Nowcasting (out to a few hours), using observations, analyses, and a prototype Warn-on Forecast System (WoFS)
2. Extracting information from high-resolution numerical weather prediction models for severe weather and fire weather applications
3. Statistical modeling of societal impacts derived from the current and future SPC forecast suite
4. Facilitating and executing experiments in the Hazardous Weather Testbed (HWT)
5. Collaborating with scientists at NSSL and EMC on WoFS-related research to link FV3 CAM development activities with operational testing and implementation

The minimum qualifications for the position are:

1) A Doctorate Degree in Meteorology, Atmospheric Science, or related area;
2) United States citizenship or permanent residency.

When applying, please indicate your preference(s) as to which project areas in which you are interested. Additionally, please include information related to your experience in software development, web development, graphic design/visualization, and Linux (UNIX) environments including the AWIPS2/N-AWIPS systems. Your ability to communicate clearly is of utmost importance.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote locations. General supervision will be provided by CIMMS staff with technical oversight provided by SPC.
management. You will work under general supervision but are expected to work independently
and determine action to be taken in handling all but unusual situations. This is a non-supervisory
position, although you may serve as a leader of technical teams. Salary is based on your education,
experience, skills, and knowledge. Information on University of Oklahoma benefits may be found
at https://hr.ou.edu.

To apply, please forward your resume or CV, cover letter, and list of three references to:

University of Oklahoma
CIMMS Careers
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
Attention: SPC-RS
CIMMS-careers@ou.edu

*The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.*
CIMMS Research Associate at the Storm Prediction Center
Hazardous Weather Research (Multiple Positions)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Associates to work with the NOAA/NWS Storm Prediction Center (SPC). These positions will be located at the SPC in Norman, OK, which is located within the National Weather Center (NWC), a highly collaborative operational, research, and academic environment containing a number of NOAA and OU organizations. Here, you will work directly with development meteorologists and operational forecasters at the SPC and will have opportunities to interact with NOAA and academic scientists within both the NWS and the broader meteorological community.

As a CIMMS Research Associate working with SPC, you will provide scientific and meteorological expertise, along with technical support for the development of advanced mesoscale hazardous weather prediction techniques. More specifically, the list below describes potential projects:

1. Developing and/or improving calibrated probabilistic forecast guidance for the prediction of thunderstorms, severe weather, and fire weather, covering the following forecast periods:
   a. Subseasonal-to-seasonal (S2S), especially Week 2
   b. Medium-to-extended range (Days 3-8)
   c. Short range (Days 1-2), using convection-allowing model (CAM) ensembles
   d. Nowcasting (out to a few hours), using observations, analyses, and a prototype Warn-on Forecast System (WoFS)
2. Extracting information from high-resolution numerical weather prediction models for severe weather and fire weather applications
3. Statistical modeling of societal impacts derived from the current and future SPC forecast suite
4. Facilitating and executing experiments in the Hazardous Weather Testbed (HWT)
5. Collaborating with scientists at NSSL and EMC on WoFS-related research to link FV3 CAM development activities with operational testing and implementation

The minimum qualifications for the position are:

1) A Master’s Degree in Meteorology, Atmospheric Science, or related area;
2) United States citizenship or permanent residency.

When applying, please indicate your preference(s) as to which project areas in which you are interested. Additionally, please include information related to your experience in software development, web development, graphic design/visualization, and Linux (UNIX) environments including the AWIPS2/N-AWIPS systems. Your ability to communicate clearly is of utmost importance.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote locations. General
supervision will be provided by CIMMS staff with technical oversight provided by SPC management. You will work under general supervision but are expected to work independently and determine action to be taken in handling all but unusual situations. This is a non-supervisory position, although you may serve as a leader of technical teams. Salary is based on your education, experience, skills, and knowledge. Information on University of Oklahoma benefits may be found at https://hr.ou.edu.

To apply, please forward your resume or CV, cover letter, and list of three references to:

University of Oklahoma
CIMMS Careers
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
Attention: SPC-RA
CIMMS-careers@ou.edu

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.
The University of Oklahoma (OU)’s School of Meteorology invites applications for a tenure-track faculty position at the Assistant Professor level to begin in the academic year of 2020-2021. The School is seeking candidates with a research focus in one or more of the following areas: observations of atmospheric composition; atmospheric dynamics of weather systems at any scale. Candidates with expertise on related topics are also encouraged to apply. Applicants must demonstrate an exceptional potential to establish a strong research program in atmospheric science. Equally important, they must have a commitment to excellence in teaching and mentoring at the undergraduate and graduate levels, as well as to diversity, inclusion, and equity, plus a strong desire to participate in service to the School, University, and atmospheric science community. Applicants should have completed their PhD by the time of appointment.

The School is seeking to both retain its core strengths in mesoscale and radar meteorology and continue the recent diversification of its research portfolio. Recent faculty hires have included expertise in climate, aerosol and cloud remote sensing, polar studies, seasonal prediction, cloud microphysics, tropical meteorology, stratosphere-troposphere exchange, and the boundary layer. The School offers significant opportunities for collaboration due to its location within the National Weather Center (NWC), housing the University’s academic and research programs in meteorology, state organizations, and the U.S. National Oceanic and Atmospheric Administration’s Norman-based weather programs. The nearby research campus also houses the Department of the Interior’s South Central Climate Adaptation Science Center, the Radar Innovations Laboratory, and numerous private sector companies. To enhance connectivity between the School and various affiliated research units, the hire will have ample opportunities for collaborations with researchers in the Cooperative Institute for Mesoscale Meteorological Studies (CIMMS), the Center for Analysis and Prediction of Storms (CAPS), the Advanced Radar Research Center (ARRC) and the Center for Autonomous Sensing and Sampling (CASS), all collocated at the NWC.

OU is a Carnegie-R1 comprehensive public research university known for excellence in teaching, research, and community engagement, serving the educational, cultural, economic and health-care needs of the state, region, and nation from three campuses. The School of Meteorology values a diverse student and faculty body and encourages applicants from underrepresented groups to apply. This diversity extends beyond the usual definitions regarding age, ethnicity, physical abilities, political and religious beliefs, veteran status, gender, and gender identity, to include work, educational, and life experiences.

To apply, please submit a letter of interest, a statement of research goals, visions on teaching and diversity and inclusion, curriculum vitae, and the names of four people who can serve as references (with full mailing and e-mail addresses, and telephone numbers) online via ByCommittee: https://apply.interfolio.com/69153. Applicants are also encouraged to provide publication and citation data, such as those available from Publons, Google Scholar or similar resources. Screening of applications will begin on 1 November 2019 and will continue until the position is filled. Please address all correspondence to:

Dr. Cameron Homeyer, Search Committee Chair (chomeyer@ou.edu)
Associate Director for Graduate Programs, School of Meteorology, University of Oklahoma
120 David L. Boren Blvd., Suite 5900, Norman, OK 73072
Florida Tech Department of Ocean Engineering and Marine Sciences
Assistant Professors in Meteorology and Physical/Coastal Oceanography

The Department of Ocean Engineering and Marine Sciences at the Florida Institute of Technology invites applications for two tenure- or teaching-track faculty positions in Meteorology and Physical/Coastal Oceanography with an expected starting date in August 2020. The positions are posted at the assistant-professor level, but exceptional candidates with appropriate levels of experience may be considered for appointment at the associate level.

The successful candidate for the Meteorology tenure track should have expertise in one or more of the following areas: coupled ocean-atmosphere modeling, land-atmosphere modeling, and observations using satellite data; radar meteorology; tropical/mid-latitude meteorology; atmospheric electricity; boundary-layer meteorology; and data analysis and assimilation. Skillsets such as coupled-WRF modeling will be a plus.

The successful candidate for the Physical/Coastal Oceanography tenure track should have expertise in one or more of the following areas: coupled land-air-sea modeling, air-sea interactions and ocean-atmosphere boundary layer, coastal oceanography and meteorology, observations using satellite data, and data assimilation. Skillsets such as coupled-WRF modeling or COAWST will be a plus.

The successful candidates will be expected to teach both graduate and undergraduate courses; conduct and maintain active, externally funded research programs; publish scholarly work; mentor graduate students; and engage in service activities. Each successful applicant must have earned doctorate in a relevant field, and a strong commitment to undergraduate teaching, as well as an interest in interdisciplinary and collaborative research. Postdoctoral experience will be considered an asset. Salary will be commensurate with experience.

The successful candidates for the teaching track should have expertise in one or more of the aforementioned areas. However, the primary effort of a non-tenure-track faculty member will be undergraduate and graduate teaching, with an expected load of up to 4 courses per semester.

Florida Tech is a major, private, engineering-focused research university providing comprehensive, high-quality undergraduate and graduate programs. Ranked as a Tier 1 university by U.S. News and World Report, Florida Tech is situated on the
east-central coast of Florida in the city of Melbourne in Brevard County, approximately 60 miles east of Orlando and 30 miles south of the Kennedy Space Center. The Department of Ocean Engineering and Marine Sciences (OEMS) has 26 faculty members. Undergraduate and graduate degree programs include atmospheric, ocean, and life sciences, as well as ocean engineering. OEMS has approximately 270 undergraduate students, and 90 MS and PhD students.

For the meteorology position, applications should be sent to oemsmet@fit.edu and, for oceanography, to oemsocn@fit.edu. Please upload a single pdf document that contains the following items in the order listed: cover letter, curriculum vitae, contact information for three (3) professional references, a statement of research interests (for a tenure-track appointment), and a statement of teaching interests and teaching philosophy. Applicants should clearly state whether they are applying for the tenure or the teaching track in the cover letter. Applications are due no later than COB on 9 November 2019.

If you would like to apply for both positions, please indicate in your cover letter which of the two is the primary.

Florida Tech actively supports an educational environment that fosters diversity and inclusion for all and is an affirmative action/equal opportunity employer committed to increasing the cultural and intellectual diversity of its faculty.
CIMMS Postdoctoral Research Associate – Cloud Physics

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Postdoctoral Research Associate position for projects funded by the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), the Department of Energy (DOE) and the National Oceanic and Atmospheric Administration (NOAA). The Postdoctoral Research Associate will participate in and analyze data from experimental field projects seeking to obtain a better quantitative knowledge of the microphysical properties of clouds, to better understand cloud processes and to represent them in weather and climate models.

Background:
The Director of CIMMS has a number of ongoing and planned field projects making air- and ship-borne in-situ and remote sensing measurements of cloud properties, including projects investigating Southern Ocean clouds, Arctic clouds, mesoscale convective systems, winter storms, tropical cyclones, and others. Investigations using these data to determine how cloud properties vary with environmental and aerosol conditions are expected to continue for several years. Further, the uncertainties in derived cloud properties will be used to develop a new-generation of stochastic parameterizations for incorporation into models.

Responsibilities:
The incumbent will participate in the collection of data during field campaigns, process data collected by cloud probes using the University of Oklahoma software, help organize future field campaigns, assist in proposal preparation, conduct scientific analysis with the collected data, write papers for the refereed literature, and present the results of findings at national and international meetings. It is also expected that the incumbent will interface with investigators at several other universities and institutes, making derived cloud products available to other investigators as well as receiving data from probes operated by others for use in scientific investigations. Development of parameterizations and execution of model simulations may also be required.

Qualifications:
1. A Ph.D. degree in atmospheric science or related area.
2. Background in cloud physics, and especially in observations, is desired.
3. Strong software design and programming (e.g., Matlab) skills, and scripting (Python) familiarity.
4. Excellent oral and written communication skills (including papers published in, or submitted to refereed journals).
5. An ability to work both independently and cooperatively with others.

The beginning salary will be based on qualifications and experience, with benefits provided through the University of Oklahoma (https://hr.ou.edu/Employees/). The position is currently available and is a full-time appointment.

To apply, please forward your resume, cover letter and contact information for 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: Cloud Physics
Open Rank Professor of Earth and Planetary Sciences

The Department of Earth and Planetary Sciences at Washington University in St. Louis invites applications for a tenure-track or tenured faculty position at the assistant, associate, or full professor rank, commensurate with experience, in the field of planetary science. The candidate is expected to perform research in the broad area of planetary surfaces and processes, have or seek active involvement in planetary science missions, and eventually assume leadership of the NASA Planetary Data System Geosciences Node at Washington University. The ideal candidate will employ quantitative tools and will integrate computational approaches with remotely sensed observations.

The successful candidate is expected to develop a vigorous, externally funded research program, maintain a strong publication record, advise students, provide outstanding teaching of undergraduate and graduate courses, and participate actively in departmental governance and university service. We seek candidates who will strengthen existing research programs in planetary science and remote sensing, as well as foster collaboration with scholars across the Washington University community.

Candidates must have a Ph.D. in planetary science or a related field at the time of appointment. In addition, candidates at the associate or full professor rank must have an advanced record of research, publication, and teaching warranting tenure. Complete applications include cover letter, curriculum vitae, statements of teaching and research interests, and names and contact information of at least four references, submitted via Interfolio: https://apply.interfolio.com/66099. Applications must be received by October 31, 2019 to ensure consideration.

Washington University in St. Louis is committed to the principles and practices of equal employment opportunity and especially encourages applications by those underrepresented in their academic fields. It is the University’s policy to recruit, hire, train, and promote persons in all job titles without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, protected veteran status, disability, or genetic information.
THE PROGRAM. The University of California President’s Postdoctoral Fellowship Program was established in 1984 to encourage outstanding women and minority Ph.D. recipients to pursue academic careers at the University of California. The current program offers postdoctoral research fellowships and faculty mentoring to outstanding scholars in all fields whose research, teaching, and service will contribute to the diversity and equal opportunity at the University of California. The contributions to diversity may include public service towards increasing equitable access in fields where women and minorities are underrepresented. In some fields, the contributions may include research focusing on underserved populations or understanding inequalities related to race, gender, disability or LGBT. The program is seeking applicants with the potential to bring to their academic and research careers the critical perspective that comes from their non-traditional educational background or understanding of the experiences of members of groups historically underrepresented in higher education in the United States.

AWARDS AND APPOINTMENTS. Fellowships are awarded for research conducted at any one of the University of California’s ten campuses. The award includes a salary starting at approximately $50,760 depending on field and experience, benefits including health insurance and paid vacation/sick leave, and up to $5,000 for research-related and program travel expenses. Each award is for a minimum of 12-months and may be renewable for an additional term upon demonstration of academic/research productivity.

ELIGIBILITY. Applicants must receive a Ph.D. or terminal degree from an accredited university before the start of their fellowship. Successful applicants must present documents demonstrating that they are legally authorized to work in the United States. Individuals granted deferred action status under the Deferred Action for Childhood Arrivals program are encouraged to apply.

APPLICATION. Apply online at: ppfp.ucop.edu

DEADLINE: November 1, 2019
USC Price at a Glance

The mission of the Price School is to improve the quality of life for people and their communities, here and abroad.

We Offer Masters Degrees in:

- Public Policy
- Public Administration
- Urban Planning
- Nonprofit Leadership & Management
- Public Policy Data Science
- Health Administration
- Real Estate Development

3 Executive Masters Programs
3 Doctoral Programs

IDEALIST GRADUATE SCHOOL FAIR
October 3rd, 5:00pm - 8:00pm
University of Illinois, Chicago
UIC Forum

FOR MORE INFORMATION, VISIT PRICESCHOOL.USC.EDU
The University of Missouri Geology Field Camp is located in Sinks Canyon within the Shoshone National Forest, 7000 feet high in the Wind River Range, 9 miles south of Lander, WY. The facility is housed in log buildings, including dormitories for men and women, a well-equipped computer laboratory/classroom with satellite internet access, a student lounge and a large dining hall.

Six-week, six credit-hour course. Projects include:
- introduction to basic field methods in geology
- sedimentary facies analysis
- mapping of deformed sedimentary units
- applied surface and groundwater hydrogeology
- shallow subsurface reflection and refraction geophysics
- subsurface basin analysis and correlations
- structural analysis of high-grade metamorphic rocks
- four-day trip to Yellowstone and Grand Teton national parks and surrounding areas

Pre-requisites: Historical Geology, Structural Geology and Sedimentology/Stratigraphy

Academic scholarships ($500 to $1,500) available to all qualified applicants.

Student jobs available to interested applicants.

In-state tuition for all applicants. Estimated total cost (includes all tuition and fees) for summer 2020 is $4,500.

Visit us at https://fieldcamp.missouri.edu
Questions? Contact Field Camp Director Dr. Miriam Barquero-Molina
(barqueromolinam@missouri.edu)
FALL 2019 SEMINAR SERIES

Elizabeth French, Purdue University  Contact: Laramy Enders – lenders@purdue.edu
Exploiting the Root-Associated Microbiome for Plant Health

Andres Gomez, University of Minnesota  Contact: Tim Johnson – john2185@purdue.edu
Intra- and Interspecies Gut Microbiome Dynamics in Primates: Lessons in Ecology and Evolution

Alejandro Rodriguez Sanchez, Purdue University  Contact: Lori Hoagland – lhoaglan@purdue.edu
Interactions between Wastewater and Crops: Benefits and Disadvantages Focusing on Microbial Communities (HLA Seminar Series)

Jim Tiedje, Michigan State University  Contact: Tim Johnson – john2185@purdue.edu
Interrogating Risk on the Environmental-Clinical Antibiotic Resistance Continuum

Tobin Hammer, University of Texas-Austin  Contact: Thor Hansen – hanse125@purdue.edu
Microbial Ecology of Bee and Butterfly Guts

Photo credit: Tim Johnson

To arrange an individual meeting with a speaker, please e-mail the contact person for that speaker.
ACTIVELY MOVING FORWARD
PURDUE CHAPTER
GRIEF AND LOSS GATHERING

FALL 2019 MEETINGS:
AUG 27, SEPT 10, SEPT 24,
OCT 22, NOV 5, NOV 19, DEC 3

Come join our community of
boilermakers supporting each other in
grief throughout college

EVERY OTHER TUESDAY
HONORS COLLEGE SOUTH
READING ROOM
6-7 PM

WANT MORE INFO?
Contact Kayla at purdueu-amf@healgrief.org
Visit the national website:
www.healgrief.org/actively-moving-forward/

JOIN OUR GROUPME!
Seeking Applicants!

We are now accepting applications for the 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. Deadline: November 1 at midnight.

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 - begins October 1
- 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: https://tinyurl.com/HrubyFellowship
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 to 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 fellow is expected to foster creativity and to stimulate explorations at the forefront of 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 to apply is November 1 of each year and the fellowship normally begins on October 1 of the following year.

Requirements:

We invite applications from talented researchers who have:

- Received a PhD within the past 3 years, or will complete all PhD requirements by commencement of appointment (10/1/2020)
- Excellent academic and research qualifications, strong communication skills
- No prior national laboratory postdoc appointment (pre-postdoc internships acceptable)
- The ability to thrive in a dynamic, team-oriented environment
- The ability to obtain and maintain a DOE security clearance, which requires US citizenship

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

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