EAPS WEEKLY NEWSLETTER
02 December 2019

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BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!
Facebook
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Department Magazine
Website News

DEPARTMENT NEWS

EAPS COLLOQUIA

K. Steven Hughes
University of Puerto Rico
Thursday, December 5, 2019
3:30 PM
HAMP 1252

[See attached flier for more information]

LAST NEWSLETTER FOR 2019

Today’s EAPS Newsletter will be the final edition for the 2019 year. The next newsletter will be on January 6, 2020. Have a wonderful Winter Break as well as a Safe and Happy New Year!

http://www.eaps.purdue.edu/
**12th ANNUAL PURDUE RECEPTION**  
**2019 AGU FALL MEETING**

Co-sponsored by the Purdue Climate Change Research Center and the Department of Earth, Atmospheric and Planetary Sciences.

Thursday, December 12  
7:00 to 9:30 p.m.  
ThirstyBear Brewery  
Billar Room  
661 Howard Street  
San Francisco, CA

Complimentary heavy hors d’oeuvres and beverages.

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**STUDENT NEWS**

**CROWDFUNDING CAMPAIGN FOR SOLAR AMBASSADORS OF PURDUE UNIVERSITY**

The Solar Ambassadors of Purdue University are in the process of running a 6-week crowdfunding campaign to raise money to help put solar panels on the buildings of nonprofit organizations across the country.

It’s a pay-it-forward model for solar energy. We crowdsource funding to put solar panels on the community-serving nonprofit organizations. As these organizations pay us back, we reinvest the money into more solar projects in communities across the country. This creates a revolving fund for solar energy that sustains itself building more and more solar.

[See flier for additional information as well as a QR code to easily donate]

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**PAID INTERNSHIPS AT NCAR IN BOULDER, CO**

2020 Summer internships in Parallel Computational Sciences (SIParCS). This year, the 14 SIParCS projects cover topics such as augmented reality, machine learning, analysis of climate and weather model data, and more!

These are paid internship opportunities for Undergraduates and Graduates. Application deadline is January 11.

Project list may be found at:  
https://www2.cisl.ucar.edu/siparcs-2020-projects

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**TANZANIAN STUDY ABROAD PROGRAM LOOKING FOR STUDENTS**

If you are a student who is interested in participating in a study abroad program that fulfills the COS language/culture requirements, please contact Jill Newton (janewton@purdue.edu).

They work in rural Tanzanian schools for three weeks – the program is an exciting combination of adventure, service and cultural immersion. The website link is:  
https://www.education.purdue.edu/academics/undergraduate-students/study-abroad/tanzania/  
The last callout meeting is Monday (12/2) at 6/pm in BRNG 3276 (pizza served).

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**ACCEPTION APPLICATIONS FOR DOE SCHOLARS PROGRAM**

The DOE Scholars Program introduces students and recent college graduates to the U.S. Department of Energy (DOE) mission and operations.

Why should I apply?  
Being selected as a DOE Scholar offers the following benefits:  
• Stipends starting at $600 per week for undergraduates and $650 per week for graduate students and post graduates during the internship period  
• Limited travel reimbursement to/from assigned location  
• Direct exposure to and participation in projects and activities in DOE mission-relevant research areas  
• Identification of career goals and opportunities  
• Development of professional networks with leading scientists and subject matter experts

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http://www.eaps.purdue.edu/
Eligibility
- Be a U.S. citizenship
- Be an undergraduate, graduate student, or recent graduate of an accredited institution of higher education majoring in science, technology, engineering, mathematics, and related areas.
- Must be pursuing a degree or have received a degree within 5 years of their starting date in a science, technology, engineering or mathematics (STEM) discipline or have demonstrated interest or experience in a STEM field that supports the DOE mission.

How to Apply
Applications and supporting materials must be submitted at https://www.zintellect.com/Opportunity/Details/DOE-Scholars-2020

Application deadline
January 3, 2020, 4:00 PM EST

For more information: Visit https://orise.orau.gov/doescholars

Questions? doescholars@orise.orau.gov

ENVIRONMENTAL COORDINATOR – WHEATFIELD, IN

This position is primarily responsible for coordinating, implementing and supporting environmental compliance programs in all media (air, water, waste) for a coal-fired electric generating facility. Program areas include, but are not limited to, NPDES, stack and fugitive air emissions, RCRA, Coal Combustion Residuals and solid waste management. The position will involve extensive field activity along with administrative and planning duties. This individual is expected to work closely with facility management and staff in the planning and implementation of compliance programs in the environmental arena.

This position will be filled as either Env Coord 2, Env Coord 3 or Principal depending on education and experience.

Qualifications
At minimum, a bachelors degree in science, engineering, environmental studies or other related field.

A minimum of three years field experience in regulatory compliance work is greatly preferred.

Working knowledge of current environmental regulations in all media. Applicant must also be familiar with the regulatory process on the state and federal level, and with the use of available sources of regulatory information.

Proficiency with basic computer tools, such as spreadsheets and word processing software.

Ability to work independently, show strong problem-solving capabilities and a willingness to use professional judgment.

Ability to communicate both verbally and in writing with employees at all levels of the organization and with regulatory agencies.

Ability to compose technical information in written form; it is expected that the applicant will be able to interpret regulations regarding required written plans and other documents, and will be proficient at drafting such plans or documents.

Ability to integrate business and regulatory needs, execute business forecasts and manage both OM and capital budgets.

Ability to work cooperatively with staff from other business segments is absolutely essential.

The requirements listed are considered to be the minimum necessary for consideration.

Inclusion & Diversity
Value inclusion within your day to day responsibilities by respecting others perspectives/convictions, engaging others opinions, creating a safe environment where people, ideas, and opinions are valued within your Team/Customers and external partners.

Respect and take into consideration diversity within your Team/Customers and external work partners by valuing different world views, challenges, and cultures that represent all walks of life and all backgrounds.
Treat others with respect and consideration. Actively participate in creating and contributing to a positive work environment.

**How To Apply**
For immediate consideration, please apply on-line at careers.nisource.com **before November 27th**!

Apply at this link: [https://www.nisource.com/careers/job-detail/job-923812](https://www.nisource.com/careers/job-detail/job-923812)

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**SCIENCE COMMUNICATION DAY AT THE STATEHOUSE**

The Science Policy Initiative of Notre Dame is currently recruiting STEM graduate students from across Indiana for a Science Communication Day at the Statehouse on March 2nd, 2020.

Participants will have the opportunity to meet with State Senators, Representatives and their staff to practice communicating about their research to a non-technical audience. The goal of the event is to increase visibility of scientists at the statehouse, and begin cultivating the relationships that are so essential for creating evidence-based policy.

[See flier for additional information]

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**UNIDATA IS LOOKING FOR A PYTHON DEVELOPER**

The Unidata Program Center is hiring! We are looking for a Python developer to join our team in creating and maintaining software and data services to support the geosciences.

As part of the University Corporation for Atmospheric Research (UCAR) in Boulder, CO, Unidata offers competitive salaries and great benefits. UCAR was selected as one of the Best Companies to Work For in Colorado. Simply put, Unidata is a great place to work. Unidata’s team environment provides high levels of autonomy and responsibility with great opportunity to excel individually and contribute to the team’s success. We are looking for a Python developer to help our community of scientists access the Earth system science data that fuels their research. As a member of the Python team, you will collaborate with other Unidata developers to test, support, maintain, and develop Unidata open source software products and real-time data streams. In particular, this position focuses on:

- Development and support for MetPy and Siphon
- Maintenance and enhancement of Unidata’s Python training materials
- Teaching Unidata’s Python Training Workshop locally and periodically at various universities, usually several times per year.

If you enjoy teaching, like working with Python, and want the opportunity to support and interact with Unidata’s fantastic community of users, we encourage you to apply. For a detailed job description see the official posting.

For more information on UCAR and the application process, go to: [https://www.ucar.edu/opportunities/careers](https://www.ucar.edu/opportunities/careers)

More information at the following link: [https://www.unidata.ucar.edu/blogs/news/entry/unidata-is-looking-for-a](https://www.unidata.ucar.edu/blogs/news/entry/unidata-is-looking-for-a)

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**CIMMS PETER LAMB POSTDOCTORAL FELLOWSHIP**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma has established the Peter Lamb Postdoctoral Fellowship that we envision will be offered annually. CIMMS is a research organization that promotes collaborative research between National Oceanic and Atmospheric Administration (NOAA) and University of Oklahoma (OU) scientists on problems of mutual interest. This collaborative basic and applied research includes the study of mesoscale and storm-scale meteorological phenomena to help produce better forecasts and warnings that save lives and property and the investigation of the societal impacts of such phenomena. Research scientists within CIMMS use observations, analysis and models to improve the understanding and prediction of high-impact weather elements and systems ranging in size from cloud nuclei to multi-state areas.
Applications must include a 3-4 page novel proposal developed by the applicant that addresses at least one of the CIMMS research themes: 1) weather radar research and development; 2) storm-scale and mesoscale modeling research and development; 3) forecast improvements research and development; 4) impacts of climate change related to extreme weather events; and 5) societal and socioeconomic impacts of high-impact weather systems. Applicants are highly encouraged to contact a CIMMS scientist before writing their research proposal to receive guidance when drafting a proposal and to ensure the mentorship of an eligible CIMMS research scientist.

The CIMMS website http://cimms.ou.edu/index.php/research has more information on projects underway within these research themes as well as contact information for CIMMS scientists working on these themes.

[See flier for complete information]

**NCAR POSITION OPEN: ASSOCIATE SCIENTIST III – DATA ASSIMILATION**

NCAR is hiring for an Associate Scientist III, located in Boulder, Colorado. As an Associate Scientist III - you will conduct research, and testing and evaluation of Numerical Weather Prediction (NWP) capabilities including data assimilation systems/techniques applied in real-world applications. You will also serve as a link between distributed user and developer groups for the data assimilation (DA) community, e.g. for the Gridpoint Statistical Interpolation (GSI) and EnKF DA systems. Do you have a Bachelor's degree in atmospheric science, physical sciences, or engineering science plus substantial experience (e.g., 3-5 years as an ASII or equivalent position) in related research? Having experience with data assimilation is also highly desired. Sound like the job for you? If so, please click here to apply: http://bit.ly/2C1ls14

**FACULTY SEARCH IN THE DEPARTMENT OF EARTH AN PLANETARY SCIENCES AT NORTHWESTERN UNIVERSITY**

The Department of Earth and Planetary Sciences at Northwestern University invites applications for a tenure-track faculty position at the rank of Assistant Professor in the field of geophysics, broadly considered, to begin in Fall 2020. We seek a scholar whose expertise and creativity will complement and expand the Department’s strengths. Area(s) of specialization within solid-Earth, environmental or planetary geophysics are open and may include any aspect of geodesy, seismology, dynamic topography, geophysical fluid dynamics, hazards, climate, or planetary science across spatiotemporal scales. Applicants are likely to employ emerging technologies in remote sensing, machine learning, numerical methods, and/or field instrumentation. Applicants whose research reveals linkages between physical processes and societal impacts are particularly encouraged to apply. The successful candidate is expected to teach both undergraduate and graduate courses and lead a vibrant externally funded research program. A Ph.D. is required at the time of appointment. The **deadline for applications is 12/16/19**. Applicants should visit http://bit.ly/NUEARTH-faculty-position for submission instructions. Questions may be directed to earth@northwestern.edu.

More information can be found at: https://www.earth.northwestern.edu/our-people/open-positions/

Applicants can direct their questions to earth@northwestern.edu

**GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS for Round 2, Fall 2019**

Eligible dates for travel will be from January 1, 2020 - May 31, 2020. The **deadline for students to apply is December 6th**, with announcements made by Friday, December 13th.

[See attached flier]
**INTERNSHIP TO WRITE FOR GWCC**

On behalf of the Global Weather & Climate Center, we are writing to you about an opportunity we are extending to university meteorology departments across the nation and Purdue University is among the top universities we are contacting.

We’d like to invite you to visit the GWCC web site.

This company was founded a little over 3.5 years ago, and covers global weather events as well as educational, advanced meteorological, climatological, environmental, and space weather topics. GWCC is not another weather forecasting site, but rather an informational resource site. With over 9,500 followers between Facebook and Twitter along with a combined average monthly reach of over 300,000 people a month and quickly growing, this is a great networking opportunity to all applicants.

We would like to offer current students (graduate and undergraduate), a writing internship opportunity with GWCC. Selected applicants (interview, letter of interest, resume, and writing samples are required) would be able to write for GWCC at their own frequency (one article per month minimum). Full details about the opportunity and application instructions can be found at - http://www.globalweatherclimatecenter.com/write-for-us.html.

We know that you are receiving this at the start of your fall semester, but this is a great opportunity for tremendous academic progress and professional growth. Purdue University alumni are also welcome to apply for a position with GWCC as well.

**HYDROLOGY/FISHERIES FACULTY POSITION**

Salish Kootenai College Department of Hydrology is seeking a full time hydrology instructor with fisheries experience in applied hydrological measurements, fluvial processes, general fisheries biology and hydrological and fisheries management tools for natural and cultural resource management for tribal organizations.

The minimum requirements will be an M.S. (PhD preferred) in Hydrology, Fisheries, Geoscience, or closely related degree.

If you are interested or have additional questions please contact Dr. Antony Berthelote, Hydrology Department Head, 406-275-4080, antony_berthelote@skc.edu

[See attached flier for additional details]

**COLLEGE OF HEALTH AND HUMAN SCIENCES**

So, you’re dealing with that science student who’s graduating soon and doesn’t know what to do next. Simple lab work is out of the question but a PhD sounds like too much school.

Enter the field of occupational and environmental health, which allows your student to transform their undergraduate science degree into a lucrative professional career in as little as two years. A career in occupational and environmental health, where scientific principles are applied to workplace safety and the mitigation of environmental hazards, can satisfy them both scientifically and financially. Purdue University offers a one-of-a-kind Occupational and Environmental Health Science (OEHS) graduate programs, featuring master’s and PhD programs that provide crucial industrial hygiene education. Plus, our year-round application deadlines are very student-friendly.

So, if you have a science student who wants to learn skills that are in high demand and enjoy a promising career with excellent compensation, OEHS at Purdue is the answer. To learn more go to this link: https://www.purdue.edu/hhs/hsci/students/graduate/programs/industrial-hygiene/index.php
GEOLOGY 2 POSITION IDEM GEOLOGY SECTION

This position resides in the Geology Section of the OLQ Permits Branch and is responsible for the following: reviewing permit applications and writing permit requirements specifically for geology, and ground water and explosive landfill gases monitoring programs for Solid and Hazardous Waste Land Disposal Facilities; ensuring these facilities are in compliance with their permit and applicable rules and regulations by tracking, reviewing, and evaluating monitoring data for ground water and explosive gas; oversee facility ground water and explosive gas corrective programs; and making enforcement referrals based on those responsibilities. Independent of the enforcement actions associated with permits, the position serves as a geologic expert in applying enforcement actions for facilities outside the permit program such as salvage yards. This position will also be responsible for reviewing permit applications for Confined Feeding Operations and registrations for Compost Facilities with respect to geologic and ground water aspects.

This position may advise various IDEM staff, citizen groups, environmental boards, and the regulated community on changes to rules affecting ground water, explosive gas, and geology issues. When necessary, this position will be required to interact with the public, explaining all aspects of geology, ground water quality, and explosive landfill gas migration associated with Solid and Hazardous Waste Land Disposal Facilities, Confined Feeding Operations, and Compost Facilities.

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

PURDUE APPLIED MICROBIOME SCIENCES (PAMS) FALL 2019 SEMINAR SERIES

12.12.19/3:45/PM WSLR 116: Tobin Hammer,
University of Texas-Austin Contact: Thor Hansen = hanse125@purdue.edu Microbial Ecology of Bee and Butterfly Guts

[See flier attached for additional information]
Why DTN?
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://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=3cb8097c-1afa-4a4e-958e-7a3524dcefa&ccId=19000101_000001&jobId=291539&lang=en_US&source=CC4

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.

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/

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.

For complete information please go to: https://rfhr.interviewexchange.com/jobofferdetails.jsp;jsessionid=454124CFBEE47A0800E8965AB8DE45E33?jobId=113320

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

http://www.eaps.purdue.edu/
**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 Microsoft Word, Excel, Access and PowerPoint.

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

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 data needs and help develop them into requirements to identify and fill gaps in analysis and short-term (0-18 hour) forecasting.
Develop and implement validation algorithms for 0-18 hour forecasting tools and innovations in order to improve critical forecasting capabilities to meet the needs of NWS forecasters.
Collaborate with the Office of Science and Technology Integration’s OPG (Operations Proving Ground) and NOAA Testbeds on research to operations (R2O) processes to implement tools and techniques for operational use.

Communicate with state/local officials, policy experts, and the media to negotiate technical approaches to problems, further preparedness programs, and negotiate and explain service levels.

For complete details go to: https://www.usajobs.gov/GetJob/ViewDetails/538341500

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:

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.

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.
Landslides and debris flows are common across the island of Puerto Rico given its juvenile, rugged topography along a tectonic plate boundary and location in the humid tropics. This vulnerability was especially evident after Hurricane Maria passed the commonwealth in September of 2017. A team of researchers from the Storm-induced Landslide Impact Dynamics on the Environment and Society (SLIDES-PR) research group at UPRM Department of Geology and the USGS used aerial imagery with 15cm to 50cm resolution to create an inventory of over 70,000 Maria-induced landslide headscarsps. The passage of Hurricane Maria presented a very unique opportunity to prepare an island-wide slope failure susceptibility. The digital inventory was used to empirically build a statistically robust model of landslide susceptibility with 5 m pixel resolution using the straightforward Frequency-Ratio method. The map product and accompanying paper are in review as a USGS Open File Report with anticipated release in early 2020. The map also is useful to understand the topographic evolution of the landscape and general erosion potential across the island. Reservoirs that serve as our primary drinking water supply have suffered significant sedimentation impacts to capacity from the mid 20th century to the present, highlighted by the still unknown effect of Hurricane Maria on the system. The ongoing efforts of the SLIDES-PR group are to quantify the effect and transport efficiency of sediment liberated at mass wasting sites during extreme atmospheric events in the island.
Why Donate?

“I donate to RE-volv’s crowdfunding campaigns because I know that these campaigns help nonprofit organizations across the country. My donations help fund solar panel installations for nonprofits. In that way, they can save money and invest more money back into the community. The work that people do at nonprofits is inspiring, and donating to RE-volv’s Solar Seed Fund gives me an opportunity to truly help them and my community.”

Hannah Jongkind
Purdue Solar Ambassadors Project Lead

Solar Seed Fund

Impacting Communities
We work with local, community-serving nonprofits that are interested in going solar to make that dream come true.

Building Clean Energy
We envision a world where people are thriving in communities powered by clean energy

Educating about Solar
RE-volv trains college students and community members to run crowdfunding campaigns that help nonprofits go solar.

Our Theory of Change
It’s a pay-it-forward model for solar energy. We crowdsource funding to put solar panels on community-serving nonprofit organizations. As these organizations pay us back, we reinvest the money into more solar projects in communities across the country. This creates a revolving fund for solar energy that sustains itself building more and more solar.

Donate Here!

Connect and Share with RE-volv
Purdue University Solar Ambassadors
@PurdueSolarAmbassadors
RE-volv https://re-volv.org/
Purdue.Solar @outlook.com
As a participant in the DOE Scholars Program, you will gain a competitive edge as you apply your education, talent and skills in a variety of settings within the DOE complex.

**Eligibility:**
- U.S. Citizen Only
- Undergraduate and graduate students pursuing a degree or recent graduates who have a degree in science, technology, engineering, or mathematics (STEM) discipline or in a discipline that supports the DOE mission
  
  **Veterans are encouraged to apply.**

**Location:** Various locations across the U.S.

**Duration:** Appointments for DOE Scholars are typically during the summer months and are approximately 10 weeks in length. Limited extensions may be granted on the needs of the facility and the candidate's availability.

**Benefits:** Stipend and limited relocation to the appointment site (if eligible)

Visit the program website at [https://orise.orau.gov/doescholars/](https://orise.orau.gov/doescholars/)

**Application Deadline:** January 3, 2020

Questions?
[doescholars@orise.orau.gov](mailto:doescholars@orise.orau.gov)
Join graduate students from across Indiana, as we meet with lawmakers at the Statehouse to discuss our research, and advocate for an Indiana Science Policy Fellowship.

Hosted by The Science Policy Initiative at Notre Dame

Scan the code for more info and sign ups
Or go to sites.nd.edu/spi-club
Travel assistance available
Applications due Jan 31st
CIMMS Peter Lamb Postdoctoral Fellowship

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma has established the Peter Lamb Postdoctoral Fellowship that we envision will be offered annually. CIMMS is a research organization that promotes collaborative research between National Oceanic and Atmospheric Administration (NOAA) and University of Oklahoma (OU) scientists on problems of mutual interest. This collaborative basic and applied research includes the study of mesoscale and storm-scale meteorological phenomena to help produce better forecasts and warnings that save lives and property and the investigation of the societal impacts of such phenomena. Research scientists within CIMMS use observations, analysis and models to improve the understanding and prediction of high-impact weather elements and systems ranging in size from cloud nuclei to multi-state areas.

Applications must include a 3-4 page novel proposal developed by the applicant that addresses at least one of the CIMMS research themes: 1) weather radar research and development; 2) storm-scale and mesoscale modeling research and development; 3) forecast improvements research and development; 4) impacts of climate change related to extreme weather events; and 5) societal and socioeconomic impacts of high-impact weather systems. Applicants are highly encouraged to contact a CIMMS scientist before writing their research proposal to receive guidance when drafting a proposal and to ensure the mentorship of an eligible CIMMS research scientist. The CIMMS website http://cimms.ou.edu/index.php/research has more information on projects underway within these research themes as well as contact information for CIMMS scientists working on these themes.

Terms of appointment are for one (1) year, renewable for a second year subject to satisfactory performance. An annual salary of $60,000 and a research budget of up to $5,000 per year is included in the award, along with a modest relocation stipend. Successful applicants must have obtained a Ph.D. within the last five years; proof of a Ph.D. is required before assuming the post-doctoral position, but those in the final stages of Ph.D. dissertation completion are encouraged to apply provided a finish date before July 31, 2020 is anticipated.

Applicants are asked to submit electronically: (1) a curriculum vitae; (2) a list of all products (e.g., papers, patents, technology transfers, licensed software, etc.) generated over the course of their career; (3) a cover letter which includes the expected start date and any non-standard resources that might be needed to complete the proposed work; (4) a brief proposal (no more than 4 pages, double-spaced, excluding the list of references and figures) describing the work to be pursued during a 2-year tenure at CIMMS; and (5) a list of three references. In addition, applicants should request that their referees directly send their reference letters to CIMMS at the email address listed below.

To receive full consideration, applications and supporting material should be received prior to January 31, 2020. All materials should be sent electronically to:

Cooperative Institute for Mesoscale Meteorological Studies (CIMMS)
The University of Oklahoma
120 David L. Boren Blvd, Norman, OK, 73072
CIMMS-careers@ou.edu
ATTN: Peter Lamb Postdoctoral Fellowship
2019 College of Science
Graduate Student International Travel Awards

Deadline: December 6, 2019

For travel between January 1, 2020 and May 31, 2020
~ 2 or 3 awards ranging up to $800
for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within
  a 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 Carie Herbst at herbstc@purdue.edu
HYDROLOGY/FISHERIES FACULTY POSITION

Department of Hydrology
Salish Kootenai College
Pablo, Montana

Salish Kootenai College Department of Hydrology is seeking a full time hydrology instructor with fisheries experience in applied hydrological measurements, fluvial processes, general fisheries biology and hydrological and fisheries management tools for natural and cultural resource management for tribal organizations. The minimum requirements will be an M.S. (PhD preferred) in Hydrology, Fisheries, Geoscience, or closely related degree. If you are interested or have additional questions please contact Dr. Antony Berthelote, Hydrology Department Head, 406-275-4080, antony_berthelote@skc.edu

Work for the only Hydrology Bachelor’s degree program at a Tribal College or University

Students can earn A.S. or B.S. Degrees in Hydrology, Wildlife & Fisheries, or Forestry

Complete job announcement and deadlines at: skc.edu/employment

Learn more about SKC’s Natural Resources Departments at naturalresources.skc.edu
GENERAL SUMMARY:
In accord with the Salish Kootenai College Mission Statement and College Vision, the Division of Natural Resources seeks to hire a hydrology instructor with fisheries experience in applied hydrological measurements, fluvial processes, general fisheries biology and hydrological and fisheries management tools for natural and cultural resource management for tribal organizations.

MINIMUM QUALIFICATIONS:
- Master’s Degree in a field related to natural resources
- Three years’ experience in a natural resource field
- Experience mentoring and supporting Native students or co-workers
- Demonstrated ability to function collegially in a team setting and to work cooperatively with faculty and staff
- Demonstrated ability to learn new technologies, software and methods relevant to natural resource management and incorporate them into classes
- Ability to safely engage/participate in field based classes that can be physically challenging, require specialized safety training, and require safe driving skills in off road situations

To apply submit SKC application, resume and applicable transcripts to Human Resources, P.O. Box 70, Pablo, MT 59855. As an Equal Opportunity/Affirmative Action employer, we encourage applications from minorities, veterans and women. SKC is a tribal member preference employer as set forth in SKC policy. SKC is a drug free workplace. All pre-hires must pass a drug test before formal hiring.
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.
Dudley Edmondson is an established Photographer, Author, Filmmaker, and Presenter. His photography has been featured in galleries and nearly 100 publications around the world. He is also interested in working with school kids and getting them involved in the outdoors through birding, photography, and nature hikes. He was one of the first to highlight the involvement of African Americans in the public lands system.

Unsatisfied with the numbers of people who looked like him among those he encountered in his outdoor pursuits, Mr. Edmondson set out to create a set of outdoor role models for the African American community by writing his landmark book, “Black & Brown Faces in America’s Wild Places” (AdventureKeen Publications 2006) featuring luminaries in the environmental and outdoor recreation fields. Mr. Edmondson has also been immersed in the effort to help the conservation sector become more inclusive.