EAPS WEEKLY NEWSLETTER
03 FEBRUARY 2020

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DEPARTMENT NEWS

EAPS NEW PUBLICATIONS


https://pubs.acs.org/doi/abs/10.1021/acs.est.9b07150


http://www.eaps.purdue.edu/
NEXT GENERATION INVENTORS SESSION

Exhibit your student innovation. National Academy of Inventors (NAI). Deadline to apply is February 14, 2020.

9th Annual Meeting
April 8-10, 2020
Phoenix, AZ

Click here to submit your application today!

[See attached flier for more information]

LOCAL ACADEMIC INVENTORS NETWORK (GAIN)

Gain advice from the experts. Connect to a Global Network of Inventors. It’s easy and free!

[See flier attached for more information]

WUSTL MIDWEST AEROSOL SUMMER SCHOOL

Aerosol Science and Engineering is an enabling discipline with applications in fields such as environment, Energy, Advanced Materials, Medicine, and Agriculture.

Experience two days of interactive learning with peers from the Midwest! Discussions and activities will be led by leading researchers in the aerosol field.

Registration is required, please visit: https://sites.wustl.edu/aerosolsummerschool
For more information, please contact Katie Bay: k.bay@wustl.edu

[See attached flier more additional information]

OPERATIONAL METEOROLOGIST JOB OPENING AT SOUTHERN CALIFORNIA EDISON

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

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

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

Do you feel ready to be a part of something bigger than yourself? Join the Clean Energy Revolution at Southern California Edison (SCE).

The people at SCE, don’t just keep the lights on. Our mission is so much bigger. We are fueling the kind of innovation that is changing an entire industry, and quite possibly the planet. The safety of our employees, customers, and everyone else also comes first. At SCE, you’ll have a chance to grow your career and make a difference in the world.

SCE serves a population of approximately 15 million via 5 million customer accounts in a 50,000-square-mile service area within Central, Coastal and Southern California. As a company, we have big dreams and we know nothing big is ever accomplished alone. Join one of the nation’s leading electric utilities in making sure California, and all of us who live here.

At SCE we celebrate our differences. We are a proud Equal Opportunity Employer and will not discriminate based on race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status or any other protected status. *LI-J$1

Job Link: https://www.edisoncareers.com/ShowJob/Id/719936/Meteoro%20Advisor

THE WOMEN’S LEADERSHIP SERIES AWARD

The Women’s Leadership Series Award is an award created to recognize a Women’s Leadership Series student participant who pursues leadership opportunities and demonstrates positive leadership qualities on Purdue’s campus. The award is given annually to a student who is a participant in the Women’s Leadership Series and has attended all of the series events. This year’s winner of the Women’s Leadership Series Award is our very own, Emma Rogers. Emma is a sophomore majoring in Geology and Geophysics/Planetary Science with an expected graduation in August, 2021. She comes to Purdue from Arvada, Colorado, and she resides on campus at the Honors College and Residences South. Emma serves as a Resident Honors Preceptor in the Honors College and Residences and is the Preceptor Liaison for the HCR Society. Emma is Vice President of the Purdue Undergraduate Geological Society, and she is a College of Science Ambassador and Women in Science Mentor.

In Emma’s essay, she reflected on ways she has been able to grow through experiences such as mentoring a first year science student and hearing Women in Science presentations from female leaders who provide advice about how to enhance the climate of women and maintain femininity while still being seen as a strong and respected professional. In Emma’s work with the Purdue Undergraduate Geology Society, she says, “I have made it my mission to eliminate the stigma against women in the geology field, since traditionally this field is male dominated.”

Emma’s recommender spoke to the creative and supportive activities that she plans for her forty residents. She gave a great example saying, “Emma has a standing tea hour each week where residents can come and try different teas as well as talk and hang out, She has continuously had a great turnout for this event whether it’s just someone stopping by to make tea or a group of residents staying the entire time to hang out with Emma.” The recommender also noted that in Emma’s role with the hall club, she has “helped a
lot this year in mentoring the incoming executive board and has been a staple in keeping them on track.” She cited an example during fall semester when the club had very large plans to build a homecoming float that involved a lot of work. Emma attended many of the extra paint nights and was present the day of the event to walk in the parade and support the club.

For her leadership and accomplishments, Emma will receive a $1,000 award. Let us congratulate Emma and all of our outstanding student leaders!

NEW GAS CYLINDER RENTAL PROCESS TO BEGIN FRIDAY, (JANUARY 31st)

The process for gas cylinder rentals and invoicing will change as of Friday (Jan. 31). Orders may be placed via the existing University Stores Ariba catalog through Thursday (Jan. 30). The demurrage, or monthly fees, for these cylinders will continue to be invoiced by Purdue’s Materials Management and Distribution business office until the cylinder is returned.

Beginning Friday (Jan. 31), all new gas cylinder orders must be placed in Ariba through Indiana Oxygen’s catalog. The monthly fees for these cylinders will be invoiced through Purdue’s iLab solutions on behalf of Indiana Oxygen.

Regardless of the source, customers are encouraged to return cylinders that are not in use by contacting Indiana Oxygen at purdue@indianaoxygen.com.

Questions regarding the iLab account structure may be sent to iLabhelp@purdue.edu. All other questions should be directed to Jayme Baker, Procurement Services category analyst, at baker555@purdue.edu.

2020 INDIANA VIEW STUDENT SCHOLARSHIPS

Amount
Up to six $750 scholarships will be awarded to six different students.

Who Can Apply?
Undergraduate or graduate students using remote sensing and/or other geospatial technologies in their research at any of the IndianaView educational institutions (see http://www.indianaview.org/partners.html for a list). Scholarship applicants must be endorsed by a faculty member from one of these educational institutions.

What activities does the scholarship support?
The purpose of the scholarship program is to promote student development in remote sensing and other geospatial technologies. IndianaView wishes to see a significant portion of the award used to support field work that complements a student’s research, travel to a professional meeting, data purchase, software purchase, minor equipment purchase, professional society membership, journal subscription, publication cost, and/or book purchase. The scholarship cannot support international travel.

Please include the following in your application (send via email):
Resume – Your CV/Resume must include: a) your name, address, phone number, and e-mail address; b) educational background; c) work experience (if applicable); d) personal involvement with remote sensing and other geospatial technologies (through coursework, projects, work experience, or any other activity).
Essay – Please include a 1-page essay (double-spaced) that addresses your personal interest in remote sensing and/or other geospatial technologies and your plan (including time frame) for using the scholarship funds to promote your personal development in the field.
Letter of Recommendation – The faculty member who is endorsing you should send a letter of recommendation in a separate email.
Submit the application documents via email to: kongn@purdue.edu.

All materials must be received by the end of the day on February 28, 2020. Valid applications will be considered by a review panel. Awards will be announced in mid-March 2020. Note: Students receiving awards are required to provide feedback about how the scholarship benefited their professional development and prepare a fact sheet about the project. Fact sheet
templates will be provided. Funds must be spent by August 31, 2020.
For questions, contact Dr. Nicole Kong, IndianaView Coordinator, (kongn@purdue.edu or 765 496-9474)

These scholarships are possible through funding received by Purdue University from the U.S. Dept. of the Interior – U.S. Geological Survey - AmericaView under award AV18-IN-01 Modification 001.

IndianaView Background
The AmericaView Program AmericaView (AV) is a nationwide partnership of remote sensing scientists who support applied remote sensing research, K-12 and higher STEM education, workforce development, and technology transfer. Funded by a grant from the U.S. Geological Survey, the AmericaView consortium is comprised of university-led, state-based consortia working together to sustain a network of state and local remote sensing scientists, educators, analysts and technicians. AmericaView’s networks, facilities and capabilities are highly leveraged and used for sharing and applying public domain remote sensed data in a wide range of civilian applications, from formal and informal education, to ecosystem analysis and natural resources management, to disaster response. AmericaView’s primary goal is to support the many beneficial uses of remote sensing in service to society.

IndianaView Consortium
The overall purpose of IndianaView, organized in 2004, is to promote sharing and use of public domain remotely sensed data for education, research and outreach across universities, colleges, K-12 institutions and state and local governments for the state of Indiana. The goals of the IndianaView consortium are:

1. Promote the use of remote sensing image data in the K-16 education. This will include making available appropriate data sets along with information that can be used for tutorials and training.

2. Facilitate the use of remote sensing data to monitor state-wide issues such as crop development, lake water quality and urban development.

3. Maintain an online portal to example remote sensing image data for Indiana, tutorials, and links to other related remote sensing resources.

IndianaView Student Scholarship Program
The IndianaView Student Scholarship Program provides an opportunity for participants at our member institutions to support the goals and objectives of IndianaView and AmericaView.

ANNOUNCING OPEN CALL FOR PRE-PROPOSALS FOR THE 2020 CHORAFAS FOUNDATION AWARD

Deadline: March 6, 2020

Purdue University will nominate one young PhD graduate student researcher for the 2020 Chorafas Foundation Award. The $5,000 award, made available by the Dimitris N. Chorafas Foundation, is intended as a prize for advanced studies and/or research during or shortly after graduation. The Dimitris N. Chorafas Foundation was founded in 1992 under the leadership of Prof. Dimitris N. Chorafas. Each year, the Foundation awards prizes to more than 20 universities, with the goal of stimulating promising young researchers. Applications are invited from PhD students enrolled in any college at Purdue.

Process:

- Selection of a Purdue nominee will be a two-phase process. Students are invited to submit pre-proposals for the Chorafas Foundation Award by Friday, March 6, 2020.

- A maximum of 5 finalists will be selected to submit a full nomination package. The deadline for submitting full nomination packets is March 31, 2020.

- The cover page and all requirements and criteria for pre-proposals and final proposals are provided in the attachment.

All pre-proposals should be sent to the attention of Amber Everest, Office of Research and Innovation, College of Engineering (ARMS 3000),

http://www.eaps.purdue.edu/
COMMUNITY SERVICE/SERVICE-LEARNING GRANT PROGRAM

Purdue’s Office of Engagement provides grants to students or student organizations for work on community service-learning projects. This program’s goal is to expand the community involvement of Purdue students in partnership with communities, nonprofit agencies, schools, and governmental bodies.

Both the application and guidelines for the Student Grant Program for Community Service/Service Learning Projects can be found online: https://slg.engagement.purdue.edu

All are encouraged to share this information with students and student organizations who may be interested in applying for the grant. Applications for Spring semester projects must be submitted online on or before Wednesday, February 5, 2020. Applicants will be notified of a decision no later than Friday, February 28, 2020.

Inquiries may be directed to Lisa Duncan, Purdue Office of Engagement at 49-40899 or llduncan@purdue.edu.

THE OFFICE OF INTERDISCIPLINARY GRADUATE PROGRAMS PRESENTS THE 2020 SPRING RECEPTION

Registration Open. Submit an application by Friday, February 28th to present a poster apply for the Most Outstanding Interdisciplinary Project Award - $1000 Prize! Find more information online: Purdue.edu/gradschool/oigp.

Wednesday, May 6, 2020
10 AM – 12 PM
North and South Ballrooms
At the Purdue Memorial Union

Open Poster Session
10:00 – 11:30

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

Award Presentation & Keynote Address
11:20-12:00

Contact 765-496-1635 with any questions or email: oigp@purdue.edu/

2020 CENTRAL IOWA NWA SCHOLARSHIPS ANNOUNCEMENT

The Central Iowa Chapter of the National Weather Association is pleased to announce that we are again offering two atmospheric science scholarships this year. The Tim Samaras Memorial Scholarship is for meteorology students who are pursuing a career in research meteorology. The Pam Daale Memorial Scholarship will be focused on students pursuing careers in broadcast or operational meteorology. The award for each scholarship will be $1500. More information can be found in the links below - or via the attached announcement.

Pam Daale Scholarship
Tim Samaras Scholarship

Scholarship applications are due February 21, 2020. Both scholarships will be awarded at the 24th Annual Severe Storms and Doppler Radar Conference that will be held March 26-28, 2020 in Ankeny, IA. Any questions can be forwarded to me at michael.fowle@noaa.gov.

OPEN METEOROLOGY GRADUATE POSITION, OHIO UNIVERSITY FALL SEMESTER 2020

Attention graduating senior Announcing an open funded MS position in Geography / Meteorology at Ohio University beginning Fall Semester 2020.

This is a unique position, overseeing a student forecasting lab (Scalia Lab) and teaching some lab-style observations and forecasting classes to undergraduate meteorology majors. The position is excellent experience for those considering careers in NWS and academia - indeed students who have held this position in the last 10 years have all landed successful careers with NOAA / NWS, the private sector, or in academia.
The application deadline is February 15, 2020.

Please feel free to contact Dr. Ryan Fogt (fogtr@ohio.edu), Director of Scalia Laboratory, for more information.

ACCUWEATHER ACCEPTION APPLICATIONS

AccuWeather is now accepting applications for our internship and full-time meteorologist positions this year. Students can apply online by visiting https://careers.accuweather.com/.

We have four internship positions available for the State College office, and two internship positions for Wichita. Students are welcome to apply for either or both positions. We will review candidates who are currently in their junior year, or in their senior year but not graduating until December. Seniors who graduate this spring and graduate students are not eligible.

The deadline for applying for both the internship and full-time position is Friday, February 7th.

OPENING FOR A NUMERICAL WEATHER PREDICTION (NWP)

DTN has an opening for a Numerical Weather Prediction (NWP) Scientist in its Norman, OK, office. The successful candidate will assist with supporting and enhancing DTN’s WRF-based NWP capabilities. Key tasks involve applying WRF data assimilation techniques and developing relevant applications while working in an AWS high-performance computing (HPC) environment.


Mobile iOS APPLICATION DEVELOPER POSITION

DTN currently has a Mobile iOS Application Developer opening for an individual with a passion for learning and solving challenging problems


LOOKING FOR A LEVEL 1 SOFTWARE ENGINEER

DTN is looking for a Level 1 Software Engineer to join our team! This person will be an addition to an industry-specific team (such as offshore energy, transportation, or sports and safety) that creates full-stack product and platform applications, from user interfaces to backend services, using a cloud-first distributed systems approach. Each team is fully responsible for its products, from initial concept, through iteration based on market feedback, to production implementation and delivery.


METEOROLOGICAL DATA SCIENTIST POSITION

DTN is looking for a Meteorological Data Scientist to join our team!


MS OR PHD ASSISTANTSHIP AVAILABLE AT THE UNIVERSITY OF NEBRASKA-LINCOLN

This assistantship is available for Fall 2020 semester. Selected student will complete an MS or a PhD in Natural Resources Sciences degree with an Applied Climate Science specialty (e.g., Climate Assessment and Impacts or Bio-Atmospheric Interactions).

Salary

$24,000 per year for MS Students with health insurance and tuition waiver (student is responsible for fees).

http://www.eaps.purdue.edu/
$26,000 per year for PhD. students with health insurance and tuition waiver (student is responsible for fees).

Start Date
August 1, 2020 (classes begin on August 24, 2020)

Description
Exact topic of research will be developed after consultation with the advisor. However, it is expected that research may focus on land-atmosphere interactions and climatological (and other related) data analysis. Any modeling (e.g., WRF) experience would be a plus.

Qualifications
B. S. or M.S. in meteorology, geography, climate science, engineering, natural resources, or closely related field.
Previous programming background is not required, however, past experience would be a plus for the student.

To Apply
Applicants must create a single document (e.g., a Word or pdf document) and the name of the file must contain the applicant’s first and last name. Application document must include:
1. A cover letter that articulates their interest pursuing an advanced degree
2. Curriculum Vitae or Resume
3. Unofficial transcripts
4. Unofficial general GRE scores
5. List of three references and their email addresses.

Send file to Dr. Rezaul Mahmood, rmahmood2@unl.edu. Applications will be screened as they are received. Formal application to UNL, including official transcripts, GRE, and recommendations, is required subsequent to selection of the successful candidate.

For information about the School of Natural Resources, visit: https://snr.unl.edu. Contact Dr. Rezaul Mahmood (rmahmood2@unl.edu) with general questions about the assistantship.

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February 12, 2020
6-9 PM
Stewart 214 A-D
Call for Abstracts / Posters

The Purdue University Chapter of Sigma Xi, the scientific research society, is conducting a Graduate Student and Post-Doctoral Fellow Research Awards Competition in the format of a scientific poster session. You and your advisor do not need to be Sigma Xi members to participate in this competition. Also, you do not need a brand new finding. You can use a recent poster presented at a scientific conference or meeting.

There will be a first prize of $200, provided by Sigma Xi, as well as recognition for other outstanding posters in each of the four research areas:
• Graduate Student, Physical Sciences
• Graduate Student, Life and Agricultural Sciences
• Graduate Student, Engineering
• Graduate Student, Behavioral and Social Sciences
• Post-doctoral, Behavioral Sciences
• Post-doctoral, Physical, Life and Engineering Sciences

There will be one prize for each approximately 15 posters in a research area. In recent years, this has resulted in 2-3 top awards in both Life Sciences and in Engineering. Post-doctoral Fellows also are eligible to participate. There will be one award for post-doctoral fellows across the two post-doc categories.

[See poster for additional information and complete details]

GUIDELINES, REPORTING AVENUES IN PLACE TO SAFEGUARD GRADUATE STUDENT MENTORING

Purdue’s Graduate School is reminding graduate students of the guidelines established to foster optimal graduate student mentoring as well as the methods in place for reporting detrimental or questionable mentoring practices.

"Recent events at another institution have drawn attention to the tremendously negative impact

http://www.eaps.purdue.edu/
detrimental mentoring practices can have on graduate students," says Linda Mason, dean of the Graduate School. "One of the most important parts of the graduate student experience is the mentoring received from a major professor, as well as the numerous other individuals who can positively impact them."

In 2017, the Graduate Council put forth a document on guidelines for graduate student mentoring and advising. Graduate students who are experiencing mentoring relationships that are not aligned with these guiding principles should report it, Mason says.

Students can speak to the head of the department or the chair of the department’s graduate program as a first course of action. Another avenue for reporting is to visit the Graduate School’s Office of Graduate Assistance. The office can provide confidential advice and, if necessary, referrals to other sources of help.

Students also can anonymously report negative mentoring behaviors to the University Hotline at 866-818-2620 or via the web.

"Purdue University and the Graduate School want every graduate student to have a rich and meaningful graduate experience," Mason says. "For that to happen, students need effective mentors."

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**EARTH SCIENCE RESEARCH GRANTS AVAILABLE!**

The Evolving Earth Foundation is pleased to announce the availability of grants for undergraduate and graduate student research in the earth sciences.

Ten grants are available for 2020 in amounts up to $3000 per grant.

**Application deadline is March 2nd, 2020**

For application information or to find out more, please visit our website: [www.evolvingearth.org](http://www.evolvingearth.org)

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**CIMMS POST-DOCTORAL RESEARCH ASSOCIATE – SEVERE WEATHER**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Post-doctoral Research Associate to work with the National Severe Storms Laboratory (NSSL). This position will work at NSSL 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 in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, NWS forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Postdoctoral Research Associate working with NSSL, you will provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented in applied research, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;

2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;

3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning;

4. Improve lightning forecasts and applications of lightning data in operational use.

The minimum qualifications for the position are:
1) A Doctorate Degree in Meteorology, Atmospheric Science, or related area.

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 NSSL and CIMMS 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. 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 for the position, please send your CV, cover letter, and list of three references to:

CIMMS Careers
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
CIMMS-careers@ou.edu
Job Requisition: Severe Weather Post-Doc

CIMMS RESEARCH ASSOCIATE – SEVER WEATHER RESEARCH ASSOCIATE

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to work with the National Severe Storms Laboratory (NSSL). These positions will work at NSSL 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 in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, National Weather Service forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Research Associate working with NSSL, you will work as part of a team to provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented towards the Research-to-Operations process, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;

2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;

3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning.

The minimum qualifications for the position are:

1) A Masters Degree in Meteorology, Atmospheric Science, or related area.

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

http://www.eaps.purdue.edu/
CIMMS staff with technical oversight provided by NSSL and CIMMS management. You will work under general supervision. 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 for the position, please send your CV, cover letter, and list of three references to:

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

Job Requisition: Severe Weather RA

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**CIMMS RESEARCH SCIENTIST – SEVERE WEATHER RESEARCH SCIENTIST**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Scientist to work with the National Severe Storms Laboratory (NSSL). These positions will work at NSSL 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 in an exciting environment focused on the development of operationally relevant severe weather warning applications and techniques and have opportunities to interact with NOAA scientists, National Weather Service forecasters and academic scientists within both the NWC and the broader meteorological community.

As a CIMMS Research Scientist working with NSSL, you will provide scientific and meteorological expertise, along with technical support, for the development of severe convective weather applications for the prediction (0-60 minute time scale) and detection of hazards such as tornadoes, damaging wind, large hail, and lightning. This position is heavily oriented towards the Research-to-Operations process, and the list below describes potential projects:

1. Develop and/or improve calibrated Probabilistic Hazard Information for the prediction of severe weather hazards;

2. Develop, test, and implement new severe weather warning guidance algorithms for use in the Multi-Radar Multi-Sensor (MRMS) system and on the WSR-88D radar network;

3. Develop machine learning techniques for use in severe weather data analysis and short term nowcasting of tornadoes, hail, damaging wind and lightning;

4. Improve lightning forecasts and applications of lightning data in operational use.

The minimum qualifications for the position are:

1) A Doctorate Degree in Meteorology, Atmospheric Science, or related area;

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. Please indicate any experience with writing proposals and managing projects as well.

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 NSSL and CIMMS 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 for the position, please send your CV, cover letter, and list of three references to:

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

Job Requisition: Severe Weather RS

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http://www.eaps.purdue.edu/
The Center for Ocean-Land-Atmosphere Studies (COLA) and the department of Atmospheric, Oceanic and Earth Sciences at George Mason University invite you to join us for the second annual Earth System Observations & Modeling Graduate Symposium. This symposium will bring together graduate students from across the United States to share research on the Earth system and its climate. A wide variety of topics will be considered for presentation, so all Earth system science graduate students are encouraged to apply. The Graduate Symposium provides an opportunity for masters and doctoral students to share their research results, network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

All Earth system graduate students are encouraged to apply!

TRAVEL AWARDS ARE AVAILABLE
Contact esomsym@gmu.edu or visit tinyurl.com/esom2020 for more information.

FRENCH CULTURE, FOOD, & HEALTH
May 23-31, 2020
Roanne, France
NUTR 39800

[See attached flier for additional information]

EXPLORER-IN-TRAINING OPPORTUNITY
The Cooperative Program for the Advancement of Earth System Science (CPAESS), a community program of the University Corporation for Atmospheric Research (UCAR) is currently seeking Mapping trainees to participate in the NOAA Office of Ocean Exploration and Research Okeanos Explorer Program’s Explorer-in-Training program http://oceanexplorer.noaa.gov/edu/explorer-in-training/welcome.html for the 2020 field season. This program is open to enrolled undergraduate and graduate students as well as those who have recently graduated from a higher education program. The Explorer-in-Training program will provide the opportunity to gain experience using an advanced multibeam bathymetric sonar mapping system. While contributing in a significant way to the Okeanos Explorer ocean exploration mission.

A typical placement will consist of one (1) 20-30 day expedition offshore aboard the Okeanos Explorer during the spring, summer and fall of 2020, in the Atlantic Ocean. EIs will stand an eight-hour mapping watch each day while on board. The duties of mapping watchstanders typically include the acquisition and processing of multibeam data and associated sound velocity profile data, as well as precise record keeping. Each trainee will also complete an onboard project of their own interest, with approval and support from experienced mapping team personnel. A generous pre-tax daily stipend of $150 is provided, as well as travel costs to and from the ship. To apply please go to: https://cpaess.ucar.edu/okeanos-application-2020

[See attachment for more information]

GRADUATE RESEARCH ASSISTANTSHIP OPPORTUNITY AT THE UNIVERSITY OF NORTH DAKOTA
Opportunity for a prospective ATMS graduate student, located at the University of North Dakota, starting next fall.

[See attached flier for more information]

EARTH SYSTEM OBSERVATIONS & MODELING (ESOM) GRADUATE SYMPOSIUM
The Center for Ocean-Land-Atmosphere Studies (COLA) and the College of Science at George Mason University ● Fairfax, Virginia

CALL FOR ABSTRACTS
SUBMISSION DEADLINE: FEBRUARY 7, 2020

[See attached flier for additional information]
Mason University (GMU) are hosting the 2nd annual Earth System Observations & Modeling (ESOM) Graduate Symposium on April 22, 2020. We would be delighted to host any students from your earth atmospheric and planetary sciences department at Purdue to present their graduate research at this upcoming event.

The inaugural ESOM Graduate Symposium, hosted on Earth Day 2019, was a hugely successful event that hosted over 50 graduate students from across the Mid-Atlantic region. To encourage a unique and growing attendance, our committee would like to broaden the submission topics to host an even larger event.

For this upcoming symposium, we encourage earth science graduate students to share their research focused on observational and modeling topics related to our climate. Symposium topics will be based upon the number and theme of submissions, so all interested earth science graduate students are encouraged to apply.

This one-day event will include multiple poster sessions, presentations from attendees and keynote speakers, and intimate space for masters and doctoral students to network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

Any interested students should submit their abstracts to (https://gmuscience.co1.qualtrics.com/jfe/form/SV_dj2UvV3owjZFta5). There is funding available from our department to facilitate transportation and accommodations for presenters. We look forward to receiving submissions from your students! Please contact us at this email address (esomsym@gmu.edu), visit tinyurl.com/esom2020 for more information, and share the attached flyer to department staff and students.

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**JOB OPENING FOR SATELLITE LIAISON/RESEARCHER AT THE OPG**

Looking for someone to work as a Satellite Liaison and Researcher with the talented team at the NWS Operations Proving Ground (OPG) in Kansas City, MO. The position is through CIRA and stationed with the OPG. Details can be found here:

https://jobs.colostate.edu/postings/73877

**CIMMS RESEARCH ASSOCIATE - SMALL UNMANNED AIRCRAFT SYSTEMS**

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks a research associate to assist in a new project that aims to transition small Unmanned Aircraft Systems (sUAS) into operations within NOAA. This position will be located at the NOAA/Air Resources Laboratory (ARL) Atmospheric Turbulence and Diffusion Division (ATDD) in Oak Ridge, TN. The associate will play a vital role in operating the sUAS, as well as acquiring and processing the data collected by the sUAS. The most critical task will be performing daily flights at a nearby site using ATDD’s vertical takeoff and landing (VTOL) and fixed-wing sUAS to sample boundary layer temperature, moisture, and wind fields. These datasets will be provided to the nearest National Weather Service office to assist with short-term weather forecasts.

Additionally, the associate will operate ATDD’s other fixed-wing sUAS used for obtaining in-situ meteorological and flux measurements, as well as spectral characteristics of the land surface. Following data collection, the research associate will lead efforts to process the data for further analysis. This work will provide opportunities for the associate to author research papers.

[See attached flier for complete information]

**DTN IS HIRING AN NWP SCIENTIST**

DTN is hiring a WRF/NWP scientist at their Norman, OK, location. This would be a great opportunity for a recent MS or PhD graduate, particularly someone with strong cloud computing or data assimilation experience. We also have an opening for a supporting AWS Cloud Engineer. Thanks.


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http://www.eaps.purdue.edu/
2020 REU ON SUSTAINABLE LAND & WATER RESOURCES

Accepting applications for the 2020 Research Experience for Undergraduates on Sustainable Land and Water Resources.

Application deadline: February 24, 2020

Program dates: June 8 - August 14, 2020

Visit http://reuslawr.wordpress.com for more information and application.

Program Description: The aim of the proposed REU on Sustainable Land and Water Resources is to introduce undergraduate students to the key elements of research on land and water resources that are essential to improving management practices, with a focus on Community-Based Participatory Research (CBPR) and diverse interdisciplinary research teams. Students will work on one of three teams on projects that integrate Earth-surface dynamics, geology, hydrology and other disciplines. Research teams are hosted on two Native American reservations and at the Univ. MN and projects are developed in collaboration with the tribes’ resource management divisions. The REU incorporates an interdisciplinary team-oriented approach that emphasizes quantitative and predictive methods, CBPR, indigenous research methods, and traditional ecological knowledge.

Projects take place on the main campus of the University of Minnesota, Minneapolis; on the Fond du Lac Reservation in Northern Minnesota; and at Salish Kootenai College on the Flathead Reservation in Montana. Students in Civil Engineering, Earth Sciences, Hydrology, Chemistry, Biology, Ecology, Sustainability, Mathematics, and related disciplines are invited to apply. For a complete list of projects for this year, visit the project website at REUSLAWR.wordpress.com.

INVITATION TO ENGAGE WITH UNDERGRADUATE RESEARCH EVENTS

Purdue Undergraduate Research Conference Poster Symposium on April 14 from 8:30am to 4pm in the PMU Ballrooms

Research Talks/Oral Presentations on April 15 from 8:30am to 4pm in STEW 214

We are seeking volunteers to help judge student presentations. You may register on the website to indicate your interest.

Celebrate Purdue’s Thinkers, Creators, and Experimenters Showcase

April 16 from 1:30 to 3:30pm in the Co-Rec

This “non-poster, poster session” encourages participants to “bring” their research to the Co-Rec for attendees to learn what they are working on through the five senses in a creative way. Examples have included autonomous cars, molecular models, ASL transcription programs, dance choreographies, a philosophical discussion of sin, invention designs, and new curricula.

We invite you to encourage student researchers to apply to present during these judged events and for students to attend these multi-disciplinary events. If you encourage students to attend with extra credit or as a course requirement, we have methods to track if a visiting student is present and can share that information with you. Contact UGresearch@purdue.edu to learn more.

These annual events are hosted by the Office of Undergraduate Research and Purdue colleges and schools. Attached is a flier that lists these events including the new Undergraduate Research Pitch Competition.

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]

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

CROSSROADS CONFERENCE 2020

The Students of Sigma Gamma Epsilon and Indiana University Department of Earth and Atmospheric Sciences welcome you to the 2020 Crossroads Conference held in Bloomington, Indiana.

Conference Date:
Friday, March 27
7:30-5:30/pm

Keynote Speaker, student oral and poster presentations.

6:30-9:00/pm
Networking social, after party and awards ceremony

Abstract deadline:
Friday, March 13

For more information or to submit an abstract: https://sigmagma.so.indiana.edu

For inquiries: Ricard Ely: rceby@iu.edu

CORONAVIRUS INFORMATION AND FAQ

Gail Walenga and Carol Shelby via their roles as co-chairs for the Purdue University Public Health Emergency Planning Team continue to monitor everything related to the Coronavirus.

Information can be found on the PUSH website: https://www.purdue.edu/push/

What can I do to prevent becoming ill?

The steps are the same as they are for preventing any illness:

a)    Wash your hands often with soap and water for at least 20 seconds. If soap and water are not available, an alcohol-based sanitizer will suffice.
b)    Avoid touching your eyes, nose and mouth with unwashed hands.
c)    Avoid close contact with people who are sick or symptomatic.
d)    Stay home when you are sick.
e)    Cover your cough or sneeze with a tissue, then throw the tissue in the trash, and wash your hands again.
f)    Clean and disinfect frequently touched objects and surfaces.
Novel Coronavirus (2019-nCoV) Frequently Asked Questions

1) Have there been any confirmed cases on campus?
No

2) Have there been any confirmed cases in the state of Indiana?
No

3) Is there a test to see if you have Novel Coronavirus?
Yes, however, the CDC in Atlanta is the only laboratory that has the ability to perform this blood test. Therefore, only those patients who are deemed a “Patient Under investigation” by the Indiana State Department of Health can have this test. Patients must meet strict criteria to even be considered.

4) Has any patient from PUSH been deemed a “Patient Under Investigation”?
No, we have not even had one patient that has met the State Health Department’s criteria to be considered for testing.

5) What symptoms does the Coronavirus cause?
Fever (Temperature of 100.4 F or 38 C or higher), cough, shortness of breath

6) What is the difference between Coronavirus and the flu?
Both are caused by viruses that can cause fever, cough and shortness of breath. However, the flu is more likely to cause headaches, severe body aches, and possibly nausea and diarrhea. Also, the flu is much more common in humans.

7) Will antibiotics help Coronavirus?
No, since it is a virus, antibiotics will not help. Antibiotics only help bacterial infections.

8) If I have contact with someone who has traveled to China what is my risk?
Your risk is still very low. Again, there are no known cases, or even “Patients Under Investigation” at this time on campus.

9) Can I get masks at PUSH?
Due to our risk of running out of masks for truly symptomatic and at risk patients, we are unable to provide additional masks for the population. A single mask will be provided to any PUSH patient who is at risk, or is symptomatic.

10) What can I do to prevent becoming ill?
The steps are the same as they are for preventing any illness:

a) Wash your hands often with soap and water for at least 20 seconds. If soap and water are not available, an alcohol-based sanitizer will suffice.

b) Avoid touching your eyes, nose and mouth with unwashed hands.

c) Avoid close contact with people who are sick or symptomatic.

d) Stay home when you are sick.

e) Cover your cough or sneeze with a tissue, then throw the tissue in the trash, and wash your hands again.

f) Clean and disinfect frequently touched objects and surfaces.

PURDUE EMPLOYEE PRIDE INVITING LGBTQ+ FACULTY, STAFF AND GRAD STUDENTS TO SPRING EVENTS

Purdue Employee Pride (PEP), an employee organization established in 2018 for LGBTQ+ faculty, staff and graduate students, will hold a series of events this spring. Events are open to both members of the LGBTQ+ community and allies.

PEP, which is supported by the Division of Diversity and Inclusion within the Office of the Provost, offers monthly Lunch and Learn events, social activities, networking opportunities and resources. A calendar of events is available online. To sign up for the PEP newsletter and learn about upcoming events and news, click here.

WORKING PAPER SERIES – FALL 2020 ISSUE CALL FOR ABSTRACTS

The Susan Bulkeley Butler Center for Leadership Excellence, in partnership with ADVANCE-Center for Faculty Success, is continuing the Working
Paper Series focusing on navigating careers in the academy. This peer reviewed series includes work by senior scholars, graduate students, and faculty at all stages as a space for the discussion of issues related to academic careers. The series will serve as a means for documenting and sharing interventions and/or practices and/or processes developed by and/or utilized by faculty and post-docs for navigating careers.

The call for abstracts for the fall 2020 issue is now open - nationally and globally. Complete details are in the attached pdf, as well as on the Working Paper Series website.

Abstracts must be 150 words or less and must be submitted via email to butler-advance@purdue.edu by Friday, August 21, 2020. Any abstracts sent early in the spring semester may receive a response by the end of the spring semester. Abstracts received by the deadline of Friday, August 21st will receive a reply early in the fall semester.

[See attached flier for more information]

REGISTRATION OPEN FOR 2020 ENGAGEMENT & SERVICE-LEARNING SUMMIT

Please join us for the 2020 Engagement & Service-Learning Summit, Thursday, February 27, 2020 from 1:00 – 5:00 p.m., Purdue Memorial Union, hosted by the Office of Engagement. Registration is now open and full agenda of the event is attached. There is no cost to attend; however, registration is required. Registration and more information can be found HERE.

This event serves to bring together faculty, staff, students, and community partners to discuss best practices in engagement and service-learning, highlight accomplishments, and increase collaboration opportunities. This year, the event will feature two interactive tracks: a beginning track on networking and partnership formation, and an advanced track on developing engaged scholarship. A showcase of student posters and community projects in conjunction with networking and hors d’oeuvres will close the event.

[Flier attached for complete details]

http://www.eaps.purdue.edu/
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

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

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html 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
The atmospheres of hot gas giants that orbit close to their host star have been well characterized in the past decade through space-based observations with the Hubble and Spitzer space telescopes. Light curves of transiting hot Jupiters taken over a full orbital phase provide an avenue to understand their atmospheric circulation. In this talk, I will discuss possible solutions to two puzzles about the atmospheric circulation and evolution of these hot gas giant planets. First, recent light curve observations of ultra-hot Jupiters with day-side temperatures in excess of 2500 K have found evidence for new physical processes at work in their atmospheres due to the dissociation of molecular hydrogen. I will discuss the observational differences between ultra-hot Jupiters and cooler gas giants, and describe theory for the mechanisms that impact the circulation of ultra-hot Jupiters. I will also present results from 3D general circulation modeling experiments that include the effects of hydrogen dissociation and recombination and compare these simulations to observations of KELT-9b, the hottest ultra-hot Jupiter discovered. Second, many hot and ultra-hot Jupiters are inflated, with anomalously large radii that can be up to twice as large as expected from standard evolutionary models. Understanding the anomalous radii of these transiting hot gas giant planets is a fundamental unsolved problem in planetary science. I will describe how recent observations of re-inflated warm Jupiters orbiting post-main-sequence stars and hot Jupiters orbiting main-sequence stars provide an avenue to determine the cause of radius inflation of hot and ultra-hot Jupiters. To do so, I will present evolution models studying the re-inflation of gas giants in order to determine how varying the depth and intensity of deposited heating affects the re-inflation of both warm and hot Jupiters. Lastly, I will show how TESS observations of a large sample of re-inflated warm Jupiters will constrain the mechanism(s) causing the anomalous radii of gas giant planets.

Thursday, January 30
3:30 p.m.
Room 1252/HAMP

Refreshments at 3:00 pm
Room 2201/HAMP
The Next Generation Inventors Session will spotlight excellence in collegiate research and innovation to solve problems and positively impact society. Selected teams will hold an exhibit to present their innovation and attend the Annual Meeting, from April 8th-9th, 2020 at the Sheraton Grand at Wild Horse Pass in Phoenix, Arizona. Deadline to apply is February 14th, 2020.

Networking
The Annual Meeting serves as the premier arena to cultivate partnerships amongst the brightest minds in academic innovation, from across the nation and around the world.

Mentorship
Participants are encouraged to connect with NAI members, renowned inventors across all fields of study, to gain insight into the invention process and how to navigate innovative career paths.

Click here to submit your application today!
Eligibility

- Student team members must be enrolled in undergraduate, graduate or doctoral programs at **NAI Member Institutions**.
- Students must express interest in the advancement of their innovation through patenting, licensing, or commercialization.
- The presented innovation must be relevant to the Annual Meeting theme of Sustainable Futures: Propelling Innovative Ecosystems.

Requirements

- Student team enrollment status and contact information.
- Innovation abstract, including the next step to continue research and development and relation to sustainability.
- Faculty Advisor contact information. Select teams will require a letter of recommendation to endorse the presentation.

The National Academy of Inventors is proud to provide complimentary admission to the 9th Annual Meeting breakfast, lunch, and innovation sessions for up to 3 participating members from each student team.

Questions?
Email events@academyofinventors.org
Your Answers! Just a Click Away

1. To access GAIN, go to nai.firsthand.co/ & click “Get Advice”

2. Use your school email to create an account & customize your profile.

3. Browse the custom-matched advisors & request a mentor consultation.

4. Use the secure dial-in to talk to your chosen mentor.

Connect to a Global Network of Inventors

The road to success can be bumpy. You don’t have to do it alone.

Whether you have a pioneering idea that you want guidance on, you need help filing a patent, or you are just curious about the industry of innovation—there is a mentor for you!

Join the Global Academic Inventor’s Network (GAIN) and invest in your future today!

It’s Easy and Free!

Through your school’s membership, you have exclusive, secure network access that’s just a click away.

What will you GAIN?

GAIN ADVICE FROM THE EXPERTS

GLOBAL ACADEMIC INVENTORS NETWORK

Connecting Today’s Experts with Tomorrow’s Innovators
THE CENTER FOR AEROSOL SCIENCE AND ENGINEERING at WASHINGTON UNIVERSITY IN ST. LOUIS presents

MIDWEST AEROSOL SUMMER SCHOOL

MAY 17-18, 2020 IN ST. LOUIS, MISSOURI

AEROSOL SCIENCE AND ENGINEERING IS AN ENABLING DISCIPLINE WITH APPLICATIONS IN FIELDS SUCH AS ENVIRONMENT, ENERGY, ADVANCED MATERIALS, MEDICINE, AND AGRICULTURE.

EXPERIENCE TWO DAYS OF INTERACTIVE LEARNING WITH PEERS FROM THE MIDWEST!

DISCUSSIONS AND ACTIVITIES WILL BE LED BY LEADING RESEARCHERS IN THE AEROSOL FIELD

CASE RESEARCH FACULTY, WASHINGTON UNIVERSITY IN ST. LOUIS

CONTEMPORARY TOPICS IN AEROSOL SCIENCE AND ENGINEERING

ALEXANDER LASKIN, PURDUE UNIVERSITY

CHEMICAL IMAGING AND MOLECULAR CHARACTERIZATION OF AEROSOLS

DANIEL CZICZO, PURDUE UNIVERSITY

MICROPHYSICS AND CHEMISTRY OF DROPLET AND ICE NUCLEATION

CHRISTOPHER SORENSEN, KANSAS STATE UNIVERSITY

AEROSOL LIGHT SCATTERING

MATTHEW BERG, KANSAS STATE UNIVERSITY

SINGLE PARTICLE CHARACTERIZATION TECHNIQUES

NICOLE RIERER, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

MODELS FOR SIMULATING ATMOSPHERIC AEROSOLS

YANG WANG, MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

NEW PARTICLE FORMATION AND PROBING TECHNIQUES

WHO SHOULD ATTEND: UNDERGRADUATE AND GRADUATE STUDENTS IN PHYSICS, CHEMISTRY, AND ENGINEERING

REGISTRATION IS REQUIRED, PLEASE VISIT

HTTPS://SITES.WUSTL.EDU/AEROSOLSUMMERSCHOOL/

FOR MORE INFORMATION, PLEASE CONTACT KATIE BAY - K.BAY@WUSTL.EDU
Purdue University
Chorafas Foundation Awards

Deadline: March 6, 2020

Purdue University will nominate one young PhD graduate student researcher for the 2020 Chorafas Foundation Award. The $5,000 award, made available by the Dimitris N. Chorafas Foundation, is intended as a prize for advanced studies and/or research during or shortly after graduation. The Dimitris N. Chorafas Foundation was founded in 1992 under the leadership of Prof. Dimitris N. Chorafas. Each year, the Foundation awards prizes to more than 20 universities, with the goal of stimulating promising young researchers.

Process:

- Selection of a Purdue nominee will be a two-phase process. Students are invited to submit pre-proposals for the Chorafas Foundation Award by Friday, March 6, 2020. A maximum of 5 finalists will be selected to submit a full nomination package. The deadline for submitting full nomination packets is March 31, 2020.

- The requirements and criteria for pre-proposals and final proposals are provided on page 2.

- All pre-proposals should be sent to the attention of Amber Everest, Office of Research and Innovation, College of Engineering (ARMS 3000), or electronically as one PDF File to evera@purdue.edu.

Subject Areas for the Chorafas Award:

Research projects in the following areas are eligible for the Chorafas prize:

- Research, Development and Applications in Advanced Technology
- Life sciences and Medicine
- Physics, Chemistry, Sciences of the Very Small and the Very Large
- Formal sciences: Mathematics, Logic, Statistics and their Applications
- Hard Science Solutions to Millennium Problems
- Interdisciplinary Scientific Research

Eligibility:

- Applications are invited from PhD students enrolled in any college at Purdue.
- Applicants may not be older than 32 years on May 31, 2020 (born after 5/31/1988).
- Candidate students must have graduated or be expected to graduate between June 1, 2019 and December 31, 2020. Candidates can only be nominated once.
Pre-proposals. Applicants must submit cover page, a short cover letter, a curriculum vitae, a one page summary of the candidate’s dissertation research, and a one page description of the planned use of the Chorafas award. Candidates are strongly encouraged to include a list of publications, professional presentations, and examples of significant leadership.

Final proposals. Applicants selected as finalists must submit the following documents for consideration:

1) Cover page with the following information
   - Full Name (LAST, first)
   - Gender
   - Title (e.g. Dr)
   - Candidate’s home address (for issuing prize check)
   - Date of Birth (DD/MM/YYYY)
   - Title of the Thesis
   - Graduation Date (or expected graduation date) (MM/YYYY)
   - Field of Research (choose the closest one of the following fields: Life Sciences & Medicine, Physics, Chemistry, Mathematics, Informatics/Computer Science, Engineering of Finance & Risk Management).
   - Passport size photo

2) Complete CV (including internship if any) + a passport size photo

3) List of publications (only papers where the candidate is first author; the paper must be either published/in press/accepted in peer-reviewed journals)

4) Summary of Research (up to one page only)

5) Candidate’s personal note - Why my research benefits humanity… (up to one page only)

6) Two letters of recommendation. One must be from the PhD supervisor. The salutation that should be used is Dear Members of the Board

7) Abstracts of first authored papers in peer-reviewed journals (up to 5 abstracts - no longer than ½ page each)
Registration Open

The Office of Interdisciplinary Graduate Programs Presents the 2020 Spring Reception

Wednesday, May 6, 2020
10 AM - 12 PM
North and South Ballrooms
at the Purdue Memorial Union

Open Poster Session
10:00 - 11:30

Award Presentation & Keynote Address
11:30 - 12:00

Submit an Application by Friday, February 28th to present a poster
Apply for the Most Outstanding Interdisciplinary Project Award - $1000 prize!
Find more information online!

Contact us at 765 - 496 -1635 or oigp@purdue.edu | purdue.edu/gradschool/oigp
Central Iowa National Weather Association
Scholarships Available

Pam Daale
Worth $1500 each!
Application Deadline:
Friday, February 21, 2020
Apply online at:
www.iowa-nwa.com

Tim Samaras
Scholarships open to
full-time sophomore
or junior students!

Michael.Fowle@noaa.gov
OPEN METEOROLOGY GRADUATE POSITION, OHIO UNIVERSITY
FALL SEMESTER 2020

The Ohio University Department of Geography in Athens, Ohio, is seeking a master's level graduate student for the position of Associate Director of Scalia Laboratory. Scalia Laboratory is a student-run, public service, meteorology forecasting and research lab. The lab issues web-based forecasts (over 30,000 unique visits annually) and runs a 24-hour forecast hotline. The Associate Director should receive a nine-month stipend, which includes a tuition waiver.

Responsibilities of the position include:
1. Overseeing 3-4 undergraduate student forecasters, arranging forecasting schedules, performing quality control on forecasts, and ensuring forecasts are submitted on time.
2. Teaching two courses per semester as instructor of record: Meteorological Observations (GEOG 3030) and Practicum in Meteorological Forecasting (GEOG 3040). Both meet two hours a week, with approximately 10-15 students in each course.
3. Managing public relations between the lab and the user community, which entails answering questions about our forecasting products and observations and updating social media.

To apply, submit an application for the Graduate Program in the Geography Department at Ohio University, indicating an interest in the Associate Director position in your personal statement. There is no set minimum for the GRE, but an undergraduate GPA of 3.0 is required (3.5 or higher preferred). Review of applications begins February 15, 2020. With the unique setting in a Geography Department, several research specialties are available, including meteorology / climatology (specializations in Southern Hemisphere / Antarctic climate or mesoscale meteorology / tornadoes), human dimensions of climate change, environmental geography, GIS with environmental applications, and physical geography (geomorphology and biogeography). The position provides excellent management-level forecasting and teaching experience for those considering careers with the NWS or in academia. Women and minorities are especially encouraged to apply.

For further information, please visit the webpage of Scalia Laboratory (www.scalialab.com), the Department of Geography (www.ohio.edu/geography), the Graduate School (http://www.ohio.edu/graduate/apply), or by contacting Dr. Ryan Fogt (fogtr@ohio.edu). Those interested in applying should also contact Dr. Tim Anderson (anderst1@ohio.edu), chair of the Geography Department Graduate Committee.
2020 GRADUATE STUDENT AND POST-DOCTORAL FELLOWS RESEARCH AWARDS COMPETITION
February 12, 2020
6-9 PM
Stewart 214 A-D

Call for Abstracts / Posters

The Purdue University Chapter of Sigma Xi, the scientific research society, is conducting a Graduate Student and Post-Doctoral Fellow Research Awards Competition in the format of a scientific poster session. You and your advisor do not need to be Sigma Xi members to participate in this competition. Also, you do not need a brand new finding. You can use a recent poster presented at a scientific conference or meeting.

There will be a first prize of $200, provided by Sigma Xi, as well as recognition for other outstanding posters in each of the four research areas:

- Graduate Student, Physical Sciences
- Graduate Student, Life and Agricultural Sciences
- Graduate Student, Engineering
- Graduate Student, Behavioral and Social Sciences
- Post-doctoral, Behavioral Sciences
- Post-doctoral, Physical, Life and Engineering Sciences

There will be one prize for each approximately 15 posters in a research area. In recent years, this has resulted in 2-3 top awards in both Life Sciences and in Engineering. Post-doctoral Fellows also are eligible to participate. There will be one award for post-doctoral fellows across the two post-doc categories.

To participate:

1. Submit an abstract of your research by **11:59 PM, Tuesday February 04, 2020**. These will be published in a booklet. **Use the form at then end of this document.** Applications, in electronic format, should be submitted to hnzelas@purdue.edu. At the end of this document you will find the abstract application and abstract template. Abstracts should be in MS-Word format, no more than 150 words (title and authors not counted in word count).

2. Present a poster at the 2020 SIGMA XI GRADUATE STUDENT AND POST-DOCTORAL RESEARCH AWARDS COMPETITION POSTER SESSION in Stewart Center, Rooms 214A, B, C, D on **Wednesday, February 12, 2020**. Posters will be setup between **2:30 - 4:30 pm**. Presentation and judging is from **6:00 - 9:00 pm**. Presenters are requested to put up their posters by 4:30 pm and to be at their posters from 6:00- 8:30 pm to answer questions from the judges. You will provide a five (5) minute (No Longer!) presentation about your work to each judge. Practice your presentation, so that it is no longer than five minutes. At the end of this document a sample reviewer-judging sheet is shown to help you prepare a poster and three-minute presentation.

3. Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April (Date tbd).
In addition, all award winners and those recognized for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors. You will also present your poster prior to dinner (more instructions later).

This is an excellent opportunity to learn about the excellence and diversity of scientific research at Purdue as well as to make others aware of your contributions. All graduate students and post-doctoral researchers with appropriate research experiences are urged to participate in this competition.

For additional information, please contact:
Howard N. Zelaznik, Chairperson
Sigma Xi Graduate Student and Post-Doctoral Research Awards Competition
Department of Health and Kinesiology
(765-494-5601 or hnzelaz@purdue.edu)
Acknowledgement of Permission:

- Submit an abstract in **MS Word format** by 11:59 PM, Tuesday, **February 04, 2020**. These will be published in a booklet. Forms should be submitted electronically to hnzelaz@purdue.edu. Information about poster preparation is provided on a subsequent page. You will receive confirmation of abstract receipt.

- Present a poster at the **2020 SIGMA XI GRADUATE STUDENT and POST-DOCTORAL RESEARCH AWARDS COMPETITION POSTER SESSION** in Stewart Center, Rooms 214 A-D on Wednesday February 12, 2020. Rooms will be open from 2:30-4:30 pm (for poster set up and viewing) and 6:00-9:00 pm (for presentation and judging). Presenters are requested to hang their posters by 4:30 pm and to be at their posters from 6:00-8:30 pm to answer questions from judges. We will provide the hardware to place your poster (including push pins)

- A panel of faculty will judge posters. It is likely that your judges (at least two per poster) will not be experts in your research area.

Posters selected for an award will be displayed at the Annual Sigma Xi Initiation Banquet to be held in the John Purdue Room in Marriott Hall in April 2020 (exact date to be announced later). In addition, all award winners and those highlighted for Honorable Mention will be invited to attend the banquet in recognition of their outstanding research endeavors.

By submitting this form electronically, I hereby give my unrestricted permission for the Purdue University Chapter of Sigma Xi to reproduce this professional abstract in the 2020 Graduate Student and Post-Doctoral Research Poster Award Competition abstract booklet. I also hereby certify and attest that I have approval from my Major Professor to submit this abstract, and I am the person specified in the abstract.

Please note that this abstract is not to be considered a published abstract that should be listed in your academic vita. You can list the poster presentation as an intramural presentation on your vita.

**Please submit this form and your abstract in MS Word (.doc or .docx) format via email to hnzelaz@purdue.edu on or before 11:59 PM, Tuesday, Feb 04, 2020.**

Please use the following template for your abstract (see Pages 6 and 7. **DO NOT CHANGE FONT, MARGINS, ETC. ABSTRACTS WILL BE RETURNED IF YOU DO NOT MAINTAIN FORMAT ... THANKS SO MUCH FOR YOUR UNDERSTANDING**)

List all contributing authors and their affiliations; the title of your abstract, and the abstract (Note: the abstract itself can be **no more than 150 words**, this does not include title and authors)
Posters should be 56” wide by 36” high. Posters will be judged on the following criteria:

**Completeness:** All relevant information is contained in the poster (Background, purpose, methods, results, interpretations, and conclusions. No misspellings or grammatical errors.

**Clarity:** Poster is accessible to a person not expert on its content. There should be a minimum of jargon.

**Design:** Color and layout attract attention and guide the reader. Poster is legible (axes are readable) from at least 3 ft.

**Presentation:** Presenter(s) professional (both in speech and appearance) and demonstrate knowledge of the subject matter and can clearly and concisely answer all questions. Presenter kept to the expected five-minute time limit for the presentation.

**Promise:** The poster clearly explains the need for the research and makes apparent what the results of this research will contribute to the academic field.

Below is a sample review sheet used by the judges.
## 2020 Sigma Xi Poster Competition Example Judging Sheet

**Judge:**

Las = Grad, Life and Agricultural Science  
P = Grad, Physical Sciences  
B = Grad, Beh & Soc Sci  
E = Grad, Eng  
PDB = Post-doc Behavioral and Social Sciences  
PDPLE = Post-doc phys, life and engineering sciences

Excellent (16-20); Good (11-15); Fair (6-10); Poor (1-5) Each criterion graded out of 20.

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Poster#</th>
<th>Completeness</th>
<th>Clarity</th>
<th>Design</th>
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**Completeness:** All relevant information is contained in the poster (Background, purpose, methods, results, interpretations, and conclusions. No misspellings or grammatical errors.

**Clarity:** Clarity of background, purpose, methods, results, interpretations, and conclusions. Poster is accessible to a person not expert on its content. 

**Design:** Color and layout attract attention and guide the reader. Poster is legible from at least 3 ft.

**Presentation:** Presenter(s) professional (both in speech and appearance) and demonstrate knowledge of the subject matter and can clearly and concisely answer all questions.

**Promise:** The poster clearly explains the need for the research and makes apparent what the results of this research will contribute to the field.
Graduate Student and Post-Doctoral Research Poster Award Competition
2020

Abstract Submission Form

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<td>Email</td>
<td><a href="mailto:yourcareeraccountname@purdue.edu">yourcareeraccountname@purdue.edu</a></td>
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<td>Major Professor</td>
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<td>Abstract Title</td>
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**Area for poster to be judged**
- □ Grad, Physical Sciences
- □ Grad, Engineering
- □ Grad, Life and Ag Sciences
- □ Grad, Beh and Social
- □ Post-Doctoral Fellow, Beh & Social Sci
- □ Post-Doctoral Fellow, Phys, Life & Eng Sci

Go to next page for abstract form
Title of Poster
Author Last Name, First Initial, etc
Department or Academic Unit
e-mail: yourcareeraccount@purdue.edu
Name of faculty sponsor

Abstract text
EARTH SYSTEM OBSERVATIONS
AND MODELING
GRADUATE SYMPOSIUM

APRIL 22, 2020
GEORGE MASON UNIVERSITY • FAIRFAX, VIRGINIA

CALL FOR ABSTRACTS

SUBMISSION DEADLINE: FEBRUARY 7, 2020

The Center for Ocean-Land-Atmosphere Studies (COLA) and the department of Atmospheric, Oceanic and Earth Sciences at George Mason University invite you to join us for the second annual Earth System Observations & Modeling Graduate Symposium. This symposium will bring together graduate students from across the United States to share research on the Earth system and its climate. A wide variety of topics will be considered for presentation, so all Earth system science graduate students are encouraged to apply. The Graduate Symposium provides an opportunity for masters and doctoral students to share their research results, network with their peers and meet scientists from Mason, nearby universities and federal labs in the Washington, DC area.

All Earth system graduate students are encouraged to apply!

TRAVEL AWARDS ARE AVAILABLE

Contact esomsym@gmu.edu or visit tinyurl.com/esom2020 for more information.

Hosted by the Center for Ocean, Land and Atmosphere Studies at George Mason University
2nd Annual Indiana Science Communication Day

March 2nd, 2020
Indiana Statehouse, Indianapolis

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
French Culture, Food & Health

May 23-31, 2020
Roanne, France
NUTR 39800

Program Highlights
• Cooking classes with a French Chef
• Pair wine and cheese
• Learn a little French
• Explore Lyon and Roanne
• Visit a chocolate factory
• Meet wine experts
• Stay in a French villa
• Taste wine with a local winemaker
• Visit a medieval village
• Earn 2 credits
• Meets STS learning outcome

For more information, contact:
Rachel Clark
rachelclark@purdue.edu

www.studyabroad.purdue.edu
Applications are now being accepted for
NOAA’s Okeanos Explorer-in-Training Program

NOAA Office of Ocean Exploration and Research (OER) in partnership with Cooperative Programs for the Advancement of Earth System Science (CPAESS), hosts undergraduate and graduate students as well as individuals who have recently graduated from a higher education program in the Okeanos Explorer-in-Training program. Participants gain valuable experience in deepwater mapping and exploration using the latest tools and technology.

NOAA’s OER is the only federal program dedicated to exploring our deep ocean, closing the prominent gap in our basic understanding of U.S. deep waters and seafloor and delivering the ocean information needed to strengthen the economy, health, and security of our nation. OER explores previously unknown areas of our deep ocean, making discoveries of scientific, economic, and cultural value.

The NOAA Ship Okeanos Explorer is the Nation’s only federal vessel dedicated to ocean exploration. The ship is equipped with advanced tools that support systematic exploration of unknown ocean regions. High-resolution sonars, deep-water remotely operated vehicles, and telepresence technology are used to collect baseline information in unexplored areas.

CPAESS is currently seeking Mapping trainees to participate in the Okeanos Explorer Explorer-in-Training (EIT) program for the 2020 field season. The EIT program will provide the opportunity to gain experience using an advanced multibeam bathymetric sonar mapping system, while contributing in a significant way to the Okeanos Explorer.

Okeanos Explorer exploration for 2020 will focus on the Atlantic Ocean, including the US Exclusive Economic Zone near Puerto Rico, the US Virgin Islands, and New England; the Mid Atlantic Ridge, and Atlantic Maritime Canada. Current undergraduate and graduate students, and recent graduates from higher education institutions in these regions are encouraged to apply. Students traditionally underrepresented in the sciences are also encouraged to apply.
Application Deadline

Ocean Exploration
There are five 20-30 day cruises in April through September. The time at sea for this session begins April 5, 2020 and runs through September 12, 2020.

Curious?
Check out the live feed webcam and learn more about the work of Okeanos at: oceanexplorer.noaa.gov/welcome.html

Discover & Explore
Learn more about the NOAA Okeanos Explorer-In-Training program at:

oceanexplorer.noaa.gov/okeanos/training.html

Undergraduate, Graduate, and Recently Graduated Students may apply at:

cpaess.ucar.edu/okeanos-application-2020

A steeply sloped ridge along the Nova-Canton Trough mapped during the CAPSTONE Telepresence Mapping in Pacific Marine Protected Areas expedition. Onboard were Explorers-in-Training Sarah Rosenthal and Jay Chitnis. Image courtesy of the NOAA Office of Ocean Exploration and Research.
Graduate Research Assistantship Opportunity at the University of North Dakota

The Kennedy research group at UND has a M.S. Graduate Research Assistantship (GRA) position open for the 2020-2021 academic year. This position will focus on remote sensing of blowing snow at Atmospheric Radiation Measurement (ARM) climate research facilities. Activities will include the analysis and detection of the process using lidars, cloud radars, and ancillary instruments. These observations will be placed into context of meso- and synoptic scale meteorological fields. In addition to these duties, students within the research group are expected to assist with local winter weather fieldwork and outreach activities. This position includes a tuition waiver for 30 credit hours, equivalent to the requirements for a M.S. degree.

Ideal candidates have experience in programming (e.g. Python), communication skills, and possess (or are willing to gain) a tolerance of cold weather. Above all else, candidates should have an inquisitive mind and a passion for the field of atmospheric sciences. Interested individuals should contact Aaron Kennedy (aaron.kennedy@und.edu / 701-777-5269) and are encouraged to stop by the UND booth at the AMS career fair at the annual meeting!

Admissions at UND

Admission packets are due by February 15th 2020 for the fall semester. Admission requirements include:

1. A four-year bachelor’s degree from a recognized college or university. For U.S. degrees, accreditation must be by one of the six regional accrediting associations.
2. Completion of a minimum of 20 semester credits of appropriate undergraduate work, e.g., physics, mathematics, chemistry, engineering, and/or atmospheric science.
3. A cumulative GPA of at least 2.75 for all undergraduate work or a GPA of at least 3.00 for the last two years.
4. Scores on the general portion of the Graduate Record Examination (GRE).* This requirement is no longer required for domestic candidates.
5. Satisfy the School of Graduate Studies’ English Language Proficiency requirements as listed in the graduate catalog.

For more information on the admissions process, please visit: https://und.edu/programs/atmospheric-sciences-ms/
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks a research associate to assist in a new project that aims to transition small Unmanned Aircraft Systems (sUAS) into operations within NOAA. This position will be located at the NOAA/Air Resources Laboratory (ARL) Atmospheric Turbulence and Diffusion Division (ATDD) in Oak Ridge, TN. The associate will play a vital role in operating the sUAS, as well as acquiring and processing the data collected by the sUAS. The most critical task will be performing daily flights at a nearby site using ATDD’s vertical takeoff and landing (VTOL) and fixed-wing sUAS to sample boundary layer temperature, moisture, and wind fields. These datasets will be provided to the nearest National Weather Service office to assist with short-term weather forecasts. Additionally, the associate will operate ATDD’s other fixed-wing sUAS used for obtaining in-situ meteorological and flux measurements, as well as spectral characteristics of the land surface. Following data collection, the research associate will lead efforts to process the data for further analysis. This work will provide opportunities for the associate to author research papers.

**Job Responsibilities:**
1) Operate the sUAS on a daily basis at weather-dependent times.
2) Download and process data collected for expedited transmission to the local National Weather Service forecast office.
3) Participate in further analysis of the data, and preparation of scientific research papers.

**Job Requirements:**
1) United States citizen or permanent resident;
2) An M.S. degree in aerospace engineering, meteorology, computer science, or a closely-related field, or a B.S. degree with at least three years of experience;
3) At least three years of experience with piloting sUAS and flight planning is desirable;
4) Expertise in one or more programming languages (IDL, C, Python, FORTRAN, etc.) is also desired;
5) CIMMS seeks candidates that are creative, have an ability to work independently, and have good communication skills;
6) The ability to travel to field study sites will also be required.

The salary will be based on qualifications and experience with benefits provided through the University of Oklahoma (https://hr.ou.edu/).

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

CIMMS Careers  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK 73072-7304  
CIMMS-careers@ou.edu  
Job Requisition: Unmanned Aircraft

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
UNDERGRADUATE RESEARCH PITCH COMPETITION
THREE MINUTES... TO PITCH... ONE PROJECT
March 10 | 7-9pm | RAWL 1086
Awards Available

PURDUE UNDERGRADUATE RESEARCH CONFERENCE
A TRADITIONAL APPROACH TO PRESENTING RESEARCH PROJECTS AND DISCOVERIES
Poster Symposium | April 14 | 8:30am-4pm | PMU Ballrooms
Oral Presentations | April 15 | 8:30am-4pm | STEW 214
Awards Available

CELEBRATE PURDUE’S THINKERS, CREATORS, & EXPERIMENTERS
SHOWCASE YOUR RESEARCH TO INVOLVE THE SENSES—ENGAGE THE AUDIENCE IN YOUR WORK
April 16 | 1:30-3:30pm | Co-Rec

purdue.edu/undergrad-research

CHECK OUT OUR SPRING SEMINAR SERIES

OUR OFFICE OF UNDERGRADUATE RESEARCH
Butler Center-ADVANCE Working Paper Series
Navigating Careers in the Academy: Gender, Race and Class

The Butler Center in partnership with ADVANCE -Center for Faculty Success has a Working Paper Series focusing on navigating careers in the academy. This peer reviewed series includes work by senior scholars, graduate students, and faculty at all stages as a space for the discussion of issues related to academic careers. The series will serve as a means for documenting and sharing interventions and/or practices and/or processes developed by and/or utilized by faculty and post-docs for navigating careers.

The topics may include: strategies for diversifying faculty, staff and students; negotiating intersections of gender, race/ethnicity, and nationality in the academy; creating inclusive research environments; mechanisms for involving graduate and undergraduate students in research; traversing teaching/the classroom; considering inclusivity in mentoring faculty/students; lessons to be learned from experiences of faculty in the academy; gender biases – in the classroom, P&T evaluations, leadership; best practices around creating an inclusive climate; effective programs/interventions; intersectionality; role of professional societies in achieving success and excellence. This list is indicative of topics of interest but is by no means exhaustive. We encourage manuscripts that bridge the gap between research, policy, and practice. The following types of submissions will be considered for this working paper series: reflection papers; summaries of research; write-ups of speakers or meetings; white papers; preliminary findings; conceptual pieces; creative works; best practices.

The working papers may be anywhere between 2 pages (such as best practices) to 20 pages in length. The papers will be peer-reviewed. The authors will retain the copyright to their papers, allowing them to republish their work elsewhere.
Susan Bulkeley Butler Center for Leadership Excellence and ADVANCE
Purdue University
WORKING PAPER SERIES
Navigating Careers in the Academy: Gender, Race, and Class

CALL FOR ABSTRACTS FOR THE FALL 2020 ISSUE IS NOW OPEN
DEADLINE: Friday, August 21, 2020

Abstracts for the fall 2020 issue of the Butler Center-ADVANCE Working Paper Series’ titled “Navigating Careers in the Academy: Gender, Race, and Class” are now being accepted. The deadline for submission of abstracts is Friday, August 21, 2020.

We invite submissions that fall under the broad topic of academic careers (as noted below, please see our website for details). Abstracts must have specific aims or questions proposed to be addressed; clear argument/s; and make contribution/s that will benefit those in the academy. Abstracts should include the form/s of evidence that will be used – forms of data, cases, reflection based on experiences and so on.

Abstracts must be 150 words or less and should be emailed to butler-advance@purdue.edu. Please include the following information in your submission:
- Title of the paper (tentative is acceptable)
- Name of authors, rank or title, and name of department (in order of authorship)
- Email of corresponding author

Abstracts will be reviewed by the co-editors and the editorial board. If the abstract suggests that the paper is suitable for the Working Paper Series, the author/s will be required to submit the full-length paper within about six weeks. If the author/s require additional time for submission of the full-length paper, they may request for considering their submission for the following issue (Spring 2021). The co-editors’ decision to accept and publish the paper will be made based on peer reviews.

Past issues and more information about manuscript submission is available online at www.purdue.edu/butler/working/index.html or by emailing butler-advance@purdue.edu.
Welcome to the annual Engagement and Service-Learning Summit, Thursday, February 27, 2020, 1:00 – 5:00 PM hosted by the Office of Engagement. This event serves to bring together faculty, staff, students, and community partners to discuss best practices in engagement and service-learning, highlight accomplishments, and increase collaboration opportunities. This year, the event will feature two interactive tracks: a beginning track on networking and partnership formation, and an advanced track on developing engaged scholarship. A showcase of student posters and community projects in conjunction with networking and hors d’oeuvres will close the event.

**Agenda**

1:00 PM   Welcome & Framing of the Summit (PMU, East/West Faculty Lounge)

1:30 PM   Tracks 1 & 2 Begin

**Track 1: Networking and Partnerships (PMU, East/West Faculty Lounge)**

*Participate in this highly interactive session on community-based project and partnership formation. In the style of speed dating, participants will explore partnership roles and expectations and dialogue about best practices. Participants will also develop an aspirational framework for a future project or partnership. Appropriate for those new to service-learning and engagement and/or exploring new partnerships.*

**Track 2: Scholarship of Engagement (PMU, 2nd floor meeting rooms)**

*Take your current community-based research, teaching, or industry partnership and turn it into engaged scholarship. Hear examples from engaged scholars and build your capacity to produce engaged scholarship in one of two focused workshops: Engagement and Research/Discovery or Engagement and Teaching & Learning*

**Engagement and Research/Discovery Facilitators:**

Patricia Morita-Mullaney, Ph.D., Assistant Professor, Literacy & Language | Marifran Mattson, Ph.D., Professor, Communication | Rod Williams, Ph.D., Associate Professor, Forestry and Natural Resources

**Engagement and Teaching & Learning Facilitators:**

Monica Miller, PharmD, Clinical Associate Professor, Pharmacy Practice | Mary Jane Eisenhower, Ed.D., Professor, Purdue Northwest, Early Childhood Education | Jennifer Bay, Ph.D., Associate Professor, English | Sherrie Steiner, Ph.D., Assistant Professor, Purdue Ft. Wayne, Sociology, | Lata Krishnan, Ph.D., Clinical Professor, Speech, Language, & Hearing Sciences | Donald Mueller, Ph.D., Associate Professor, Purdue Ft. Wayne, Mechanical Engineering

2:15 PM   Break

2:30 PM   Track 1 continues (PMU, East/West Faculty Lounge)  
Track 2 workshops begin (PMU, 2nd floor meeting rooms)

3:30 PM   Closing Thoughts (PMU, East/West Faculty Lounge)  
Steve Abel, Associate Provost for Engagement

3:45 PM   Showcase with Networking & Hors d’oeuvres (PMU, East/West Faculty Lounge)

5:00 PM   End of Event