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

Facebook
Twitter
Department Magazine (Spring 2018)
Website News

DEPARTMENT NEWS

EAPS COLLOQUIA

Amy McGovern
University of Oklahoma
Thursday, August 23, 2018
3:30 PM
HAMP 1252

Annalisa Bracco
Georgia Institute of Technology
Thursday, August 30, 2018
3:30 PM
HAMP 1252

NEW SURVEY REQUESTED BY AMERICAN GEOSCIENCES INSTITUTE

How geoscientists access information such as data, maps, and peer-reviewed articles has
dramatically shifted in the past decades with advancing technology changing what and how geoscience information is used. The American Geosciences Institute (AGI) has developed a more detailed, 15-minute survey containing 20 questions to understand where the community finds reliable sources of geoscientific information and how these assets are accessed. By understanding the new world of geoscience information access, AGI can work with the profession to improve both discoverability and access for all geoscientists.

Please help us by taking our survey and spreading the word so other geoscientists can share their experiences as well: [http://bit.ly/GeoInfoServicesDetailed](http://bit.ly/GeoInfoServicesDetailed). The deadline to complete the survey is Friday, August 24th, 2018.

---

FACULTY SEARCH COMMITTEE WORKSHOPS SCHEDULED FOR FALL

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


---

HOW TO REQUEST LIBRARY SUPPLIES

Due to the fact that the EAPS library has now been integrated into the Library of Engineering & Science, located in the Wilmeth Active Learning Center, the process for request library supplies has now changed. In order to request library supplies, go to the [Library of Engineering & Science website](http://www.eaps.purdue.edu/) and click on the link that says, “Course Reserve.”

---

PROPER DISPOSAL OF ELECTRONICS

When you have electronics that need to be removed, please contact either Matt Hughes or Patrick Patterson with CoS IT. These items have to have special paperwork to be completed in order to be disposed of. Moreover, UNDER NO CIRCUMSTANCES are any items to be left in the hallway to be discarded. Either remove to the dumpster out back yourself, or contact the Main Office to arrange pick up by salvage.

---

STUDENT NEWS

CIMMS RESEARCH ASSOCIATE – HAZARDOUS WEATHER PREDICTION (Multiple Positions)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Associates to work with the NOAA/Storm Prediction Center (SPC). Research Associates in these positions will provide scientific and meteorological expertise, as well as technical support for the development of advanced mesoscale hazardous weather prediction techniques. The positions will be based at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storm and fire weather communities.

[See attached flyer for additional information]

---

CIMMS RESEARCH SCIENTIST – HAZARDOUS WEATHER PREDICTION (Multiple Positions)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Scientists to work with the NOAA/Storm Prediction Center (SPC). Research Scientists in these positions will provide scientific and meteorological expertise, as well as technical support for the
The positions will be based at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storm and fire weather communities.

[See attached flyer for additional information]

POSTDOCTORATE AND PREDOCTORAL FELLOWSHIP OPPORTUNITY IN REMOTE SENSING AND SIGNAL PROCESSING

POSTDOCTORATE AND PREDOCTORAL FELLOWSHIP OPPORTUNITY in Remote Sensing and Signal Processing at the CommSensLab Excellence Unit of the Universitat Politècnica de Catalunya (UPC) in collaboration with the Department of Earth, Atmospheric, and Planetary Sciences (EAPS) at Purdue University, U.S.A. Deadline is September 26, 2018.

Remote Sensing data processing and fusion: Atmospheric Boundary-Layer monitoring in the context of severe storm hazards

Description

Synergetic remote sensing of the atmosphere, combined with adaptive/data-fusion techniques, offers unprecedented opportunities to characterise the evolution of the Atmospheric Boundary Layer (ABL) and its critical role in the development of severe storms and associated hazards. Using long-duration, high-resolution, vertically pointing observations from active and passive ground-based remote sensing systems including, e.g., ceilometers, Doppler lidar, FMCW radar, and new technologies of microwave radiometers, it is expected to characterise ABL development over distinct regions that are well known for their relatively high tornado frequency.

The candidate, working at UPC, will address data-fusion techniques based on adaptive estimation and/or machine learning that are to provide automated or semi-supervised identification of ABL top in non-precipitation observations, as well as classification metrics. Verification of ABL heights against independent observations from a wealth of remote-sensing instruments across collaborating U.S. research institutions (including e.g., Purdue University, NOAA and Univ. of Massachusetts) will also be a goal. A collaborative visit to Purdue University with a duration of 3-6 months is anticipated. Larger mobility periods to the US can be envisaged upon criteria of productivity, excellence and candidate’s needs (on a case-by-case basis, e.g., US residents). The proposed work is expected to fill knowledge gaps related to characterisation and forecasting of ABL phenomena.

The preferred funding instrument for this position is the La Caixa bank-foundation fellowship (see below). This program emphasizes heavily the importance of high-quality, scholarly publication. Tentatively, Ph.D. fellows are expected to publish no fewer than three (3) papers in top-tier journals in their respective fields during their tenure, on topics related to their fellowship-funded research.

[See flyer for more information]

CIMMS RESEARCH ASSOCIATE – TRANSPORTATION APPLICATIONS TEAM WITH NSSL

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Research Associate position for its collaborative research with scientists in the National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The incumbent will contribute to NSSL’s Transportation Applications Team. Specifically, they will join the effort for new applications in the transportation sector working towards integrating new observation sets into the MRMS (http://www.nssl.noaa.gov/projects/mrms/) system for enhanced decision support at the National
Weather Service. Other activities include, but are not limited to, development of automated guidance for convection avoidance and surface weather diagnosis for road safety.

[See attached flyer for additional information]

---

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

Seeking Applicants!

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

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

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

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

Requirements:
Candidates must meet the following requirements:

• PhD awarded within the past three years at the time of application or completed PhD requirements by commencement of appointment

• Excellent academic and research qualifications

• Evidence of exceptional technical accomplishments, leadership, and ability to thrive in a dynamic, team-oriented environment

• Candidates must be seeking their first national laboratory appointment (pre-postdoc internships acceptable)

• Ability to obtain a DOE “Q” clearance, which requires US citizenship

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

---

**CLIMATE PROGRAM OFFICER**

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

[See attached flyer for more information]

---

**CLIMATE RESEARCH ANALYST**

This position is hired through a U.C. Berkeley fellowship to work with the Packard Foundation for two years beginning in November. The fellowship program is described on our website here and aims to provide recent graduates from diverse disciplines and backgrounds a professional-level introduction to philanthropy and the non-profit sector.
The goals of the fellowship are to:

1) introduce recent graduates to philanthropy and the role of NGOs to strengthen their impact in a future career.

2) introduce the Foundation to fresh ideas, new skills, and diverse perspectives. The position will support the Foundation’s grantmaking, strategic planning, research, and monitoring, evaluation and learning for our Climate Subprogram.

Applications are due by Sept 10. Salary is up to $75,555.

To apply: go to https://jobs.berkeley.edu/, click on External Applicants, enter job ID: 24613 in the Basic Job Search Keywords search bar, you should then see “Program Research Analyst 2 (7397U) #24613,” click the link to review the job description. To apply you will need to register and create an account with UC Berkeley Jobs.

[See attached flyer for information]

CIMMS RESEARCH ASSOCIATE – FV3 PROGRAMMER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma seeks to fill a Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL). The Research Associate will work within NSSL’s Warn-on-Forecast research group.

[See flyer for additional information]

CIMMS RESEARCH ASSOCIATE FOR WARN-ON-FORECAST

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) seeks to fill a Research Associate position to support the National Oceanic and Atmospheric Administration (NOAA) National Severe Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development effort. NOAA’s WoF program seeks to develop a storm-scale ensemble prediction system to help increase warning lead times of severe thunderstorms, heavy rainfall, and tornadoes. The incumbent will interact collaboratively with researchers and operational forecasters within the National Weather Center (NWC) in Norman, OK, NOAA National Weather Service (NWS) National Centers for Environmental Prediction (NCEP) Weather Prediction Center (WPC), and Weather Forecast Offices (WFOs) to support the development and evaluation of WoF system for operational testing and implementation. The dynamic research and operational working environment at the NWC in Norman, OK will provide the candidate with ample opportunities for career advancement.

[See flyer for additional information]

CIMMS POST-DOCTORAL RESEARCH ASSOCIATE – BOUNTY LAYER OBSERVATIONS AND CONVECTIVE

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) working collaboratively with NOAA’s National Severe Storms Laboratory (NSSL), is currently looking for a highly-qualified Post-Doctoral Research Associate to provide scientific and meteorological expertise in the area of boundary layer observations and convective storms. The Post-Doc will also provide technical support for systems that observe the boundary layer including the NSSL Collaborative Lower-Atmosphere Mobile Profiling System (CLAMPS) that contains a Doppler Wind Lidar (DWL), Atmospheric Emitted Radiance Interferometer (AERI) and Microwave Radiometer (MWR). This position will include participation and support in the field for upcoming research projects that will use these systems to observe the pre-convective and near-storm environments of supercells and tornadoes.

[See flyer for additional information]
WOMEN IN SCIENCE REGIONAL CONFERENCE

The 2018 Organizational Committee for the Women in Science Conference (WISC) is returning this October. This three-day event will be hosted by the Association for Women in Science, Notre Dame Chapter (AWIS-ND) and will be held from October 5-7. This is a conference designed by graduate students for graduate students! The Conference is designed to provide graduate student women in science, technology, engineering, and mathematics a venue for networking and professional development.

[See flyer for additional information]

2ND MIDWEST STUDENT CONFERENCE ON ATMOSPHERIC RESEARCH

The 2nd Midwest Student Conference on Atmospheric Research, sponsored by the Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign, will be held on 27-28 October 2018. Information including registration, abstract submission, schedule of events, and hotel block reservations is posted on the conference website (http://www.atmos.illinois.edu/mscar).

This cross-disciplinary conference is open to undergraduate and graduate students from universities across the Midwest. Oral and poster presentations are invited in the following research areas:

- Applications of Remote Sensing
- Cloud Microphysics and Chemistry
- Energy, Environment and Society
- Variability and Predictability in the Earth System
- Data Science and Visualization

The deadline to submit abstracts and register for the conference is 28 September 2018. See the attached flyer for more information.

BIG TEN GRADUATE SCHOOL EXPO

At the Big Ten+ Graduate School Expo on September 30 and October 1, 2018, students will:

- get an inside look at graduate school and the application process,
- receive advice about funding opportunities from experts,
- attend a premier graduate school fair and network with representatives from more than 100 of the nation’s top graduate institutions.

This two-day mini-conference is especially designed for students who are looking for advanced degrees:

- Science
- Technology
- Engineering
- Mathematics
- Pharmaceutical Sciences
- Other science-related disciplines.

The Big Ten+ Graduate School Expo awarded more than $55,000 in travel scholarships last year.

Women and members of underrepresented groups are encouraged to attend. Visit http://www.purdue.edu/gradschool/gradexpo/index.html for more information and to join the mailing list!

CIMMS RESEARCH FELLOW – IMPACT BASED DECISION SUPPORT SERVICES

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

[See attached flyer for complete information]

http://www.eaps.purdue.edu/
CIMMS RESEARCH ASSOCIATE
METEOROLOGICAL SOFTWARE DEVELOPER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists, instructors and developers at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, in transitioning the Weather Event Simulator for AWIPS-2 into AWIPS-2 baseline code.

[See attached flyer for complete information]

CIMMS RESEARCH ASSOCIATE - SEVERE WEATHER WARNING DECISION-MAKING TRAINING

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists and instructors at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, on training for severe weather warning decision making.

[See attached flyer for complete information]

CIMMS RESEARCH ASSOCIATE
HIGH-RESOLUTION FIRE WEATHER

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to provide scientific and meteorological expertise, and technical support for the development of advanced mesoscale hazardous weather analysis and prediction techniques.

[See attached flyer for complete information]

CERTIFICATE IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

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

To learn more, visit the program’s website.

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY - CURRENT & INCOMING STUDENTS

Are you interested in learning about other cultures? Do you enjoy sharing things about your own culture? Would you like to make some friends from countries other than your own? If the answer to any of these questions is yes, then check out Global Science Partnerships….a learning community for College of Science Students that is designed to help you become an informed Global Citizen.

Follow this link for more information: https://www.science.purdue.edu/Current_Students/global-science-partners/index.html

ORIENTATION FOR NEWLY TENURED FACULTY

An orientation program directed at newly tenured faculty...

http://www.eaps.purdue.edu/
faculty will be held from 8:30 a.m. to 1:30 p.m. Sept. 11 in Stewart Center, Rooms 218ABC.

The program was created based on feedback from the 2015 Collaborative in Academic Careers on Higher Education (COACHE) survey. Jessica Huber, associate vice provost for faculty affairs and professor of speech, language, and hearing sciences, says that associate professors indicated the need for additional information about new responsibilities associated with tenure and plotting their course to full professor rank.

Faculty tenured in 2016, 2017 and 2018 will automatically receive an invitation to the event. Registration is required by Aug. 31 at this Qualtrics link. A copy of the agenda for orientation can be found here.

For more information, contact Huber at jhuber@purdue.edu.

SAIL AND IPG GRANTS FOR STUDY ABROAD

Thank you to all the faculty and staff who have helped the College of Science increase our College-led study abroad offerings. We hope that more of you will join us!

It is once again time to apply for SAIL grants, which reduce the cost of a program, and Intercultural Pedagogy Grants, which help leaders learn to choose appropriate intercultural learning outcomes, identify valid and reliable intercultural learning assessment tools, improve facilitation of intercultural learning during study abroad, and increase awareness of options for engaging in scholarship and learning of study abroad. Grants are available for faculty and staff who will lead a Winter Break 2018/19, Spring Break 2019 or Summer 2019 study abroad program.

SAIL Subsidy grants will be given to faculty/staff who:

1. will lead a Summer 2019 study abroad program that is 14 days or longer in length, and/or;

2. has successfully completed an Intercultural Pedagogy Grant (IPG) program, and/or;

3. has a proven track record of successfully selecting, assessing and reporting on intercultural learning outcomes from a previous study abroad program OR who is a first time enrollee in the Intercultural Pedagogy (IPG) Grant program. This year’s program will be held during the fall semester.

Programs equal to or less than 13 days in length are eligible for up to $3000 maximum from International Programs (IP). Programs exceeding 13 days will be eligible for up to $6000 maximum from International Programs. The leader’s Department and CoS Associate Dean for Undergraduate Education will split awarding the matching funds which are generally 1/3 of the IP subsidy. Successor and Exploratory grants are also available. See the attached documents for an explanation of the grants and the requirements.

Applications must be submitted on-line no later than Friday, September 7th: https://www.purdue.edu/IPPU/Apps/sailgrant/

It is suggested that you prepare your application offline before you begin your submission. You will not be able to save and return to it.

If you have questions about the RFP don’t hesitate to get in touch with Laura Starr (lstarr@purdue.edu).

Program Description:

Was this program offered in the past and if so, did it actually run as a study abroad program, or was it cancelled?

What is the proposed duration of the program?

What is the anticipated total cost of the program or estimated per student cost?

Briefly describe the courses to be taught and list goals and potential learning outcomes for the program.
What overseas university partners within your college, if any, will you collaborate with during this trip?

Is your head of department aware of this proposal? Is he/she committing any funds toward the proposed study abroad program? If so, how much?

For SAIL Grant Application FAQ's please see attached flyer.

BOILERKEY DEADLINE NOW IN EFFECT

As of July 1, faculty, staff and student employees at all of Purdue’s campuses – West Lafayette, Northwest and Fort Wayne – will need BoilerKey to log into the employee portal.

After the July 1 deadline, if you do not have BoilerKey, you can still sign up for it. The only consequence is that you will not be able to access the employee portal – which means no access to vacation time, bank account information, among other functionalities – after July 1 until you have BoilerKey.

Purdue employees can sign up for BoilerKey by visiting http://purdue.edu/boilerkey. Users can choose from two options: the Duo Mobile software application or a hardware token if a smartphone or tablet is unavailable.

What is two-factor authentication?
BoilerKey adds a second login requirement to go with your password. At Purdue, it’s a numerical code randomly generated on a smartphone app called Duo or hardware token.

Essentially, even if someone were to get ahold of your password (if you fall for a phishing email, for instance), your account would still be protected because only you can physically access your smartphone or key fob to get the necessary login code.

Why do I need it?
BoilerKey protects your sensitive data, including financial information such as your bank account and PUID numbers. This information sits behind the OnePurdue SAP portal. Depending on your role with the university, you may use the portal for a variety of functions that are not limited to vacation requests, sick leave and other personal information.

What if I need a little extra help?
No problem. You can also get help at:

- GoldAnswers (http://purdue.edu/goldanswers)
- Tech Support
  - West Lafayette campus: itap@purdue.edu or 44000
  - Purdue Northwest: csc@pnw.edu
  - IPFW: helpdesk@ipfw.edu or 260-481-6030

Purdue University’s 150th anniversary theme will be “Giant Leaps,” inspired by Neil Armstrong’s historic statement on the moon, and the centerpiece of the celebration will be a yearlong Ideas Festival, focused on four topics of discussion as Boilermakers everywhere reflect on the past, embrace the present and look to the future.

Kicking off during Homecoming 2018, Purdue will spend a year taking on some of the most pressing challenges and opportunities the world faces. The year will also be an opportunity to look back on a century and a half of serving as one of the nation’s leading land-grant universities.

The four topics, which provide an opportunity for cross-disciplinary input and debate, will begin in fall 2018 and drive a yearlong conversation during Purdue’s sesquicentennial celebration. Topics include: Giant Leaps in Space, Giant Leaps in A.I., Algorithms and Automation, Giant Leaps in Health, Longevity and Quality of Life, and Giant Leaps to a Sustainable World.

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.
Using Machine Learning to Improve Prediction and Understanding of Convective Hazards

Amy McGovern
University of Oklahoma

Severe thunderstorms and their associated hazards cause significant disruption to infrastructure, property loss, and even fatalities. Although prediction has improved substantially with better observations, more computing power, and better numerical weather prediction (NWP), there is still room for improvement. Machine learning (ML) can be used to improve NWP forecasts, for example by correcting systematic biases or predicting subgrid-scale phenomena and can also be used to improve temporal and spatial specificity. ML incorporates data from many sources, including point observations, soundings, radar and satellite images, and NWP grids. In this talk, I present work using ML to forecast severe weather, specifically large hail and tornadoes, and to identify bird roosts in radar images. Some of this work involves deep learning, a ML method that has been used with great success on image processing and is just beginning to be applied to weather data. Deep learning generally improves forecast quality and offers new ways to interpret the inner workings of the model. For the tornado problem, I present results of feature optimization and saliency maps, which are two such methods for model interpretation. These represent the beginning of a larger effort to understand the physical implications of machine-learning models trained on weather data.

Thursday, August 23, 2018
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/HAMP
Multiscale Flows in the Gulf of Mexico: From the Dispersion of Oil to Climate Implications

Thursday, August 30, 2018
3:30pm
HAMP 1252

Refreshments
3:00PM
HAMP 2201

In the ocean forcing acts at planetary scales and dissipation at microscales. In between there are the mesoscales, with characteristics akin to nearly two-dimensional, quasi-geostrophically, balanced turbulence, and a dynamical expression represented by eddies and fronts. They extend from few tens to hundred of kilometers, and act as weather systems of the ocean. At the ocean boundary layers, near the surface and at the bottom, unbalanced, submesoscale flow structures may appear in the form of vorticity filaments, density fronts or coherent vortices, with typical scales of hundreds of meters to few kilometers and a lifespan of several hours to few days. These submesoscale circulations provide a pathway for energy transfer towards smaller scales, contribute to the global overturning budget, and impact lateral and diapycnal mixing. They develop in presence of density gradients, are characterized by a seasonal cycle and their statistics are likely to change in the future due to projected changes in near surface stratification. Here I present an overview of recent studies of physical and biogeochemical interactions across mesoscale and submesoscale flows focusing on the Gulf of Mexico. I will describe the physical mechanisms responsible for the patterns of oil dispersion at the ocean surface and along the continental shelf using models and observations from the aftermath of the 2010 Deepwater Horizon oil spill, and will provide examples of how mesoscale and submesoscale circulations impact the dispersion and mixing of biologically and climatically relevant tracers, from sargassum algae to carbon.
CIMMS Research Associate – Hazardous Weather Prediction (Multiple Positions)

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Associates to work with the NOAA/Storm Prediction Center (SPC). Research Associates in these positions will provide scientific and meteorological expertise, as well as technical support for the development of advanced mesoscale hazardous weather prediction techniques. The positions will be based at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storm and fire weather communities.

The principal duties of these positions are:

1. Provide scientific and technical support in the development, testing, evaluation, and transition to NWS operations of innovative tools and technologies designed to improve the prediction of severe weather and/or fire weather.

2. As appropriate, contribute to Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements relating to severe weather and/or fire weather forecasting.

3. As needed, represent CIMMS/SPC by contributing to scientific publications and attending off-site conferences, workshops, symposia and hazardous-weather-related outreach events.

4. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Master’s Degree in Meteorology, Atmospheric Science or related area.

2. Emphasis will be placed on applicants with knowledge and experience in areas of severe and/or fire weather, numerical weather prediction models/ensemble systems including convection-allowing models, and application of statistical analysis and verification techniques.

Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, and Linux (UNIX) environments including AWIPS2/N-AWIPS systems. Excellent oral and written communication skills are highly desired.

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

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

Tracy Reinke, Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK 73072-7304  
Attn: SPC-RA  
treinke@ou.edu

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for multiple Research Scientists to work with the NOAA/Storm Prediction Center (SPC). Research Scientists in these positions will provide scientific and meteorological expertise, as well as technical support for the development of advanced mesoscale hazardous weather prediction techniques. The positions will be based at the Storm Prediction Center (SPC) in Norman, OK, within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the severe storm and fire weather communities.

The principal duties of these positions are:

1. Provide scientific and technical expertise in the development, testing, evaluation, and transition to NWS operations of innovative tools and technologies designed to improve the prediction of severe weather and/or fire weather.

2. As appropriate, lead and facilitate Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements relating to severe weather and/or fire weather forecasting.

3. As needed, represent CIMMS/SPC by contributing to scientific publications and attending off-site conferences, workshops, symposia and hazardous-weather-related outreach events.

4. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Ph.D. Degree in Meteorology, Atmospheric Science or related area.

2. Emphasis will be placed on applicants with knowledge and experience in areas of severe and/or fire weather, numerical weather prediction models/ensemble systems including convection-allowing models, and application of statistical analysis and verification techniques.

Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, and Linux (UNIX) environments including AWIPS2/N-AWIPS systems. Excellent oral and written communication skills are highly desired.

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

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

Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
Attn: SPC-RS
treinke@ou.edu

*The University of Oklahoma is an Equal Opportunity/Affirmative Action employer*
POSTDOCTORATE AND PREDOCTORAL FELLOWSHIP OPPORTUNITY in Remote Sensing and Signal Processing at the CommSensLab Excellence Unit of the Universitat Politècnica de Catalunya (UPC) in collaboration with the Department of Earth, Atmospheric, and Planetary Sciences (EAPS) at Purdue University, U.S.A.

Remote Sensing data processing and fusion: Atmospheric Boundary-Layer monitoring in the context of severe storm hazards

**Description**

Synergetic remote sensing of the atmosphere, combined with adaptive/data-fusion techniques, offers unprecedented opportunities to characterise the evolution of the Atmospheric Boundary Layer (ABL) and its critical role in the development of severe storms and associated hazards. Using long-duration, high-resolution, vertically pointing observations from active and passive ground-based remote sensing systems including, e.g., ceilometers, Doppler lidar, FMCW radar, and new technologies of microwave radiometers, it is expected to characterise ABL development over distinct regions that are well known for their relatively high tornado frequency.

The candidate, working at UPC, will address data-fusion techniques based on adaptive estimation and/or machine learning that are to provide automated or semi-supervised identification of ABL top in non-precipitation observations, as well as classification metrics. Verification of ABL heights against independent observations from a wealth of remote-sensing instruments across collaborating U.S. research institutions (including e.g., Purdue University, NOAA and Univ. of Massachusetts) will also be a goal. A collaborative visit to Purdue University with a duration of 3-6 months is anticipated. Larger mobility periods to the US can be envisaged upon criteria of productivity, excellence and candidate’s needs (on a case-by-case basis, e.g., US residents). The proposed work is expected to fill knowledge gaps related to characterisation and forecasting of ABL phenomena.

The preferred funding instrument for this position is the La Caixa bank-foundation fellowship (see below). This program emphasizes heavily the importance of high-quality, scholarly publication. Tentatively, Ph.D. fellows are expected to publish no fewer than three (3) papers in top-tier journals in their respective fields during their tenure, on topics related to their fellowship-funded research.

**Candidate requirements:**

(i) **Post-doc profile:** Recent Ph.D. in telecommunications, electronic engineering, or physics with application to atmospheric remote sensing and data processing. Good English speaking and writing skills.

(ii) **Ph.D. profile:** Candidates should meet the academic requirements to enter the UPC Ph.D program. They should hold a degree in telecommunications, electronic engineering, or physics with clear motivation to study atmospheric remote sensing and data processing. Good English speaking and writing skills are preferred.
Contact persons (Ph.D. advisors):

Francesc Rocadenbosch (CommSensLab, Dep. Of Signal Theory and Communications, Universitat Politècnica de Catalunya, Barcelona, Spain, roca@tsc.upc.edu ) and

Robin L. Tanamachi (Department of Earth, Atmospheric, and Planetary Sciences (EAPS), Purdue University, Purdue, rtanamachi@purdue.edu )

http://www.tsc.upc.edu/en/research/commsenslab/grants#boundarylayermonitoring


1. POSTDOCTORAL OPENINGS via

Call: Junior Leader “La Caixa” bank-foundation fellowship - Reserved for Excellence Centers

Description: The new postdoctoral fellowships programme, Junior Leader “la Caixa”, is aimed at hiring excellent researchers—of any nationality—who wish to continue their research career in Spanish territory, in any discipline. Sponsored by Obra Social “la Caixa”, the objectives of this programme are to foster high-quality, innovative research and to support the best scientific talents by providing them with an attractive, competitive environment in which to conduct excellent research. Modalities: Incoming (for researchers of all nationalities who must not have resided or carried out their main activity in Spain for more than 12 months in the 3 years immediately prior to the call deadline) and retaining.

Conditions: Competitive stipend and a complementary training and mentoring programme. Gross annual average wages of EUR 42.307,69, subsidy for employer hiring costs, coverage of annual research project costs (38.500 EUR) plus family/mobility assistance.

Application deadline: Please refer to the announcement at the URL below.

Details: https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/becas-de-posgrado/becas-postdoctorales-junior-leader/descripcion-del-programa
2. PhD OPENINGS via

**Call: INPhINIT “La Caixa” bank-foundation fellowship - Reserved for Excellence Centers**

*Description:* INPhINIT is a new doctoral fellowship programme devoted to attracting international early-career researchers to the top Spanish research centres and offering them an attractive and competitive environment for conducting excellent research.

*Conditions:* 3-year contract. Gross annual salary EUR 34.800 + EUR 3.564 annual additional funding to the hosting center. Award of EUR 7.500 if the research fellow submits the thesis within 6 months subsequent to the end of the fellowship’s third year. *Mobility rule:* Candidates must not have resided or carried out their main activity (work, studies, etc.) in Spain for more than 12 months in the 3 years immediately prior to the recruitment date.

*Deadline:* Feb. 1, 2018 (call opened now). Please refer to the announcement at the URL below.

CIMMS Research Associate – Transportation Applications Team with NSSL

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a Research Associate position for its collaborative research with scientists in the National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The incumbent will contribute to NSSL’s Transportation Applications Team. Specifically, they will join the effort for new applications in the transportation sector working towards integrating new observation sets into the MRMS (http://www.nssl.noaa.gov/projects/mrms/) system for enhanced decision support at the National Weather Service. Other activities include, but are not limited to, development of automated guidance for convection avoidance and surface weather diagnosis for road safety.

Background
NSSL in collaboration with CIMMS is building out a new research team to focus on weather effects on the transportation sector. Activities focus on both detection and prediction of hazards to aviation and road transportation. Much of the current activities revolve around the MRMS system but new ventures are being spun up to address such issues as how to leverage ensemble output to provide meaningful uncertainty estimates of hazards unique to the transportation sector.

The principal duties of this position are:
1) Develop and test new quality control protocols for new radars
2) Explore different methods to include new radars in the national mosaic
3) Identify and find ways to incorporate new observational datasets into the MRMS system

The minimum qualifications for the position are:
1) An MS in meteorology or a related field (i.e. physics, math, engineering, geography)
2) Computer programming experience
3) Familiarity with the Unix/Linux operating environment

Please state your experience with the following:
- Radar meteorology
- Computer programming (i.e. Python, Java, C++, etc.)
- Past experience with Unix/Linux operating systems
- Meteorological visualization tools

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff and NSSL Federal staff and management. This is a non-supervisory position, although the incumbent may serve as a leader of technical teams.

The beginning salary will be commensurate with experience and qualifications with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/Employees.

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

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

Seeking Applicants!

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

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

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

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

Requirements:

Candidates must meet the following requirements:

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

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

Apply online: sandia.gov/careers
Click on “View all Jobs” Search “Truman Fellowship” or Job ID: 661914

VISION

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

MISSION

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

VALUES

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

• We serve the nation
• We team to deliver with excellence
• We respect each other
• We act with integrity
• We live safe and healthy lives

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology and Engineering Solutions of Sandia, LLC., a wholly owned subsidiary of Honeywell International, Inc., for the U.S. Department of Energy’s National Nuclear Security Administration under contract DE-NA-0003525. SAND2017-5483 HR

Equal opportunity employer/Disability/Vet/GLBT  07/2017
Climate Program Officer
The Organization

The David and Lucile Packard Foundation is a family foundation that is guided by the enduring business philosophy and personal values of Lucile and David Packard, who helped found one of the world’s leading technology companies. Their approach to business and community participation has guided the Foundation’s philanthropy for more than 50 years. Today, their children and grandchildren continue to help guide the work of the Foundation with David and Lucile Packard’s enduring core values: integrity, respect for all people, belief in individual leadership, commitment to effectiveness and the capacity to think big. The Foundation’s goals and how they carry out their work reflects the organization’s commitment to diversity, equity and inclusion. They aim to create a workplace culture and pursue policies and practices that demonstrate how they value DEI.

The Foundation makes grants at the local, state, national, and international levels, supporting innovative nonprofits to create meaningful impact across the globe. It continues to work on the issues its founders cared about most:

- Improving the lives of children
- Enabling the creative pursuit of science
- Advancing reproductive health
- Conserving and restoring the earth’s natural systems
- Supporting and strengthening our local communities

For 2018, the Foundation expects to award more than $300 million in grants. For more information about the Packard Foundation, please visit their website here.
The Opportunity

The Foundation’s Conservation and Science Program is seeking a Climate Program Officer to manage and oversee its portfolio of work on bioenergy and carbon dioxide removal. In this newly created position that will join a team working on climate change, you will have an exciting opportunity to help shape and guide the trajectory of the Foundation’s work in the climate space. Climate change is a global problem that demands global action and as such, the Foundation has expanded its strategic efforts to address this urgent crisis. This role presents immense possibilities for thought leadership around philanthropic interventions that can support innovations and strategies to mitigate the most defining, pressing issue of our time.

Reporting to the Director of the Conservation and Science Program, you will lead the bioenergy grantmaking strategy, which includes work on both biofuels and biomass energy. The Foundation also recognizes that in order to adequately and holistically address climate change in a manner consistent with the magnitude of the crisis, this portfolio must devote attention and resources to carbon dioxide removal efforts, including both natural and technological solutions. In helping to design and lead the Foundation’s work focused on carbon dioxide removal, you will leverage your strategic skills and vision to chart a path forward in this burgeoning field.

You will also play a pivotal role in shaping the broader philanthropic sector’s strategy around bioenergy and carbon dioxide removal efforts. Working in partnership with Foundation staff and other experts in the field, you will have the compelling opportunity to help deepen the field’s engagement in exploring innovations and non-traditional climate mitigation strategies that may not yet be receiving sufficient philanthropic support.
Key Responsibilities

Portfolio Management

- Oversee a $5M portfolio of grantmaking for the Foundation’s bioenergy and carbon dioxide removal work, designing and executing against strategy
- Lead the Foundation’s work to support and advance the development and deployment of technological (e.g., direct air capture) and natural (e.g., reforestation and soil carbon sequestration) means of removing carbon dioxide from the atmosphere
- Nurture and develop relationships across the organization and with grantees

External Partnerships

- Partner closely with foundations and organizations in the environmental sector, serving as a Foundation liaison and representative for collaborative efforts with the ClimateWorks Foundation and the Climate and Land Use Alliance
- Work with Program Officers in other foundations to achieve philanthropic goals related to bioenergy and carbon dioxide removal
- Convene and collaborate with cross-sector leaders to advance the design, testing and implementation of disruptive breakthroughs

Knowledge Sharing

- Work with a cross-functional team at the Foundation to meet needs for board decision-making, strategic planning, grant tracking, communications, and grantee relationships
- Act as a representative for the Foundation in communities of learning and practice, helping to shape the field’s response to and support of this area of work
- Represent the Foundation and the Conservation and Science Program to external audiences and provide leadership in relevant fields of work
Ideal Candidate

The Foundation seeks an individual who demonstrates an unwavering passion for and commitment to solving the climate crisis. This role requires a seasoned strategic leader, who displays a combination of analytical skills and an ability to influence change in highly nuanced contexts. While climate and philanthropy expertise are not required, experience in the broader environmental sector is highly desirable.

As an ideal candidate, you bring a proven track record of developing and executing against strategies aimed at promoting social, regulatory, policy, private sector or behavioral change. This role requires you to have not only defined strategies on paper, but executed against them in ways that result in tangible, measurable impact. You are someone who understands how to navigate the complexity of diverse environments and stakeholder groups, seeking to understand and driving towards common goals from, at times, competing perspectives. A high level of emotional intelligence and the ability to be versatile and diplomatic are key. Leading with a sense of humility and intellectual curiosity, you display a genuine desire to listen to learn from others. You will operate from a place of respect for the organization’s grantees and help to create an environment of continuous learning with partner organizations and sector experts.

Inherent in all aspects of the Foundation is a commitment to creating a diverse and inclusive culture that values all backgrounds, experiences and perspectives. You are someone who is personally devoted to growing your own cultural competence and will actively participate in the Foundation’s work to integrate justice and equity into all facets of its work.
Qualifications

Candidates must have a minimum of 5 years of relevant leadership experience promoting changes in society, markets, governments, or the private sector.

An intellectual agility and ability to analyze, conduct research, think critically, and understand scientific, economic, social, and policy studies that are directly relevant to the climate space is required. Candidates should also possess exceptional communication and interpersonal skills, as well as a demonstrated ability to lead, motivate, and inspire teams. Impeccable integrity and ethics, along with a diplomatic approach to problem solving are critical.

This role will require both domestic and international travel and will be based in Los Altos, California.

To Be Considered

The David and Lucile Packard Foundation is an equal opportunity employer and welcomes a diverse candidate pool. The Foundation recognizes diversity as an asset essential to accomplishing its work and views diversity as encompassing differences in race and gender, as well as age, national origin, disability, sexual orientation, job skills, education, and geographic location.

To be considered, please visit Waldron’s candidate portal to submit your resume and cover letter expressing your passion for the mission and fit for the role.

*The search for a Climate Program Officer for the Packard Foundation is being assisted by a team from Waldron:*

- **Alison Kaneko**  
  *Search Director*  
  Direct: 415.678.5001  
  alison@waldronhr.com

- **Mary Pelleriti**  
  *Engagement Manager*  
  Direct: 415.529.2057  
  mary@waldronhr.com
Waldron is honored to work with The David and Lucile Packard Foundation in the search for a Climate Program Officer. The David and Lucile Packard Foundation does amazing work, and we are doing our best to recruit a talented team member who will accelerate this mission. As the consulting partner strategic leaders choose to help attract, engage, and inspire effective leaders, Waldron provides a unique combination of executive search, leadership development, and career transition services across sectors and industries. Our passion is helping people and organizations realize their full potential and increase their impact.
Job Title: Program Research Analyst
Job ID: 24613
Location: Other Bay Area Location
Full/Part Time: Full-Time
Department: Haas Centers and Institutes
Regular/Temporary: Temporary (2 years)

About Berkeley
The University of California, Berkeley, is one of the world’s most iconic teaching and research institutions. Since 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world. Berkeley’s culture of openness, freedom and acceptance—academic and artistic, political and cultural—make it a very special place for students, faculty and staff.

Berkeley is committed to hiring and developing staff who want to work in a high performing culture that supports the outstanding work of our faculty and students. In deciding whether to apply for a staff position at Berkeley, candidates are strongly encouraged to consider the alignment of the Berkeley Workplace Culture with their potential for success at http://jobs.berkeley.edu/why-berkeley.html.

Application Review Date
The First Review Date for this job is: September 10th, 2018
Final Submissions for this Job are required by September 10, 2018 at 5 PM PST

Departmental Overview

About The Packard Foundation
The David and Lucile Packard Foundation is a family foundation, guided by the enduring business philosophy and personal values of Lucile and David, who helped found one of the world’s leading technology companies. The Foundation invests in effective organizations and leaders, collaborates with them to identify strategic solutions, and supports them over time to reach common goals. Our Foundation’s goals and how we carry out our work reflects our commitment to diversity, equity and inclusion. We aim to create a workplace culture and pursue policies and practices that demonstrate how we value diversity, equity and inclusion.

About the Climate Program
Climate change is an urgent threat that has the potential to undermine everything we care about as a foundation. Reducing greenhouse gas emissions is essential to stabilize our climate. It is a problem that can be solved in ways that provide economic and social benefits for all. Together, we can have a collective impact and measurable progress is already being made.

You will be joining a Climate Team made up of two Climate Program Officers, two Administrative staff, two Mission Investment staff, and Foundation leadership in our work to solve the climate change crisis. With our $50M annual budget for climate grantmaking, we work in partnership with ‘re-granting organizations’ such as the ClimateWorks Foundation, Energy Foundation, Energy Foundation-China, and Shakti Sustainable Energy Foundation in India. And, we carry out direct grantmaking in the area of Climate and Land Use, including work to reduce greenhouse gas emissions caused by the expansion of commodity agriculture (such as palm oil), reduce emissions associated with bioenergy, and enhance the
ability of natural ecosystems to remove CO2 from the atmosphere through reforestation and practices that enhance soil carbon. Finally, we also support the Climate Breakthrough Project, which identifies and supports proven strategic leaders from around the world pursuing breakthrough climate mitigation strategies. More information on our climate program is available here: https://www.packard.org/what-we-fund/climate/

About the Fellowship
The UC Berkeley-Haas School of Business (through the Center for Social Sector Leadership) offers this unique two-year fellowship in philanthropy at the David and Lucile Packard Foundation to provide next generation leaders the opportunity to engage with philanthropic and Non-Governmental Organization (NGO) leaders and work with a grantmaking team serving diverse issues and populations in the Conservation & Science – Climate program.

The vision for this partnership is to strengthen the future of philanthropy and civil society by providing recent graduates from diverse disciplines and backgrounds a professional-level introduction to philanthropy and the non-profit sector. The goals of the fellowship are to 1) introduce recent graduates to philanthropy and the role of NGOs to strengthen their impact in a future career and 2) introduce the Foundation to fresh ideas, new skills, and diverse perspectives.

The position will support the Foundation’s grantmaking, strategic planning, research, and monitoring, evaluation and learning for the Climate Subprogram. This position will take day-to-day direction from one of the Foundation’s Climate Program Officers.

While placed at the Packard Foundation and receiving day-to-day supervision from the Program Officer there, the fellow will also enjoy full support from UC Berkeley-Haas School of Business’ Founder and Faculty Director of the Center for Social Sector Leadership. The Berkeley supervisor will provide context for the foundation world, access to resources for fellowship success, and personal coaching and supervision for the fellow. Since the purpose of the fellowship is to develop leaders, the fellowship also includes a professional development budget for the fellow to attend climate and philanthropy conferences, take relevant workshops and seminars, receive professional career coaching, and develop specific skills and knowledge particular to the fellow’s next career goal.

The fellowship begins November 1, 2018 and ends October 31, 2020.

Responsibilities
In this role, you will:

- Work with the Climate team to implement ambitious strategies on climate policy
- Conduct research and analysis on topics that can inform the grantmaking and strategy development and implementation
- Assist with strategic planning and monitoring, evaluation and learning activities associated with the climate grantmaking
- Assist with grantmaking, including working with grantees to develop proposals, monitor progress and review reports
- Interact with Foundation’s staff, grantees, funding partners, government agencies and content experts to complete assigned projects
• Engage in both the University and Foundation communities, including attending conferences, forums or workshops that are related to the Program Analyst’s work and professional development

Required Qualifications
We are seeking someone with strong analytical and strategic skills combined with the collaborative skills to work across Foundation teams and with partner organizations. You should consider applying if you desire a position to help further your career in environmental and conservation issues within the non-profit, private or academic sectors. Qualifications for the position are:

• Recently graduated with an advanced degree, and experience and/or graduate level education on topics relevant to climate issues (this could involve a wide range of experiences, from work experience on community organizing for social or environmental issues, to course work on political science, economics or the environment) or equivalent of work experience.
• Intellectual agility and ability to analyze, conduct research, think critically and understand scientific, economic, social and policy studies
• Ability to structure analysis, perform synthesis and provide written reports which meet project objectives and timelines
• Good quantitative skills and capable of understanding both quantitative and qualitative research
• Demonstrated strong initiative, self-motivation and ability to efficiently manage multiple simultaneous tasks and projects in diverse areas
• Strong cultural competence and a commitment to increase diversity in the environmental movement and in our own work, integrating justice and equity into the work we do and ensuring an inclusive organizational culture
• Outstanding interpersonal skills
• Outstanding written communication skills
• Impeccable integrity and trustworthiness, sense of humor and diplomatic approach to problem-solving

Preferred Qualifications

• Graduate level education in business, social science, public policy, public health, social work, social science, education, economics, law, medicine, or related fields preferred.

Salary & Benefits
Salary up to $75,555

For information on the comprehensive benefits package offered by the University visit: https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html

How to Apply
Final Submissions for this Job are required by September 10, 2018 at 5 PM PST
Please submit your cover letter and resume as a single attachment when applying.

Other Information
This is a contract appointment with a 2 year duration. The candidate selected will be working at The Dave and Lucile Packard Foundation located in Los Altos, CA
Equal Employment Opportunity
The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status. For more information about your rights as an applicant see:

For the complete University of California nondiscrimination and affirmative action policy see:
CIMMS Research Associate – FV3 Programmer

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma seeks to fill a Research Associate position for its collaborative research as a Cooperative Institute with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL). The Research Associate will work within NSSL’s Warn-on-Forecast research group.

Background:

CIMMS in collaboration with NSSL is funded to develop and demonstrate the value from a probabilistic ensemble-based convection-resolving model forecast system to help increase lead times for hazardous weather events. Increasing severe thunderstorm, flash flood, and tornado warning lead times is a key NOAA strategic mission goal designed to reduce the loss of life, injury, and economic costs of high impact weather. A successful candidate for this position will help transfer NSSL's storm-scale NWP knowledge developed for the WRF-ARW system into NOAA’s new unified FV3 modeling system. The successful candidate will work on a progression of three related projects over the next several years. This position requires an individual who has a strong interest in software development, model building, and helping construct a software infrastructure that will eventually be used for both research and operations within NOAA.

The principal duties of this position are:

1) Work with NSSL and CIMMS scientists to run the Stand-Alone-Regional (SAR) FV3 model on NSSL’s computing server.
2) Combine the SAR FV3 system with one or more ensemble data assimilation systems currently used here (e.g., NCAR’s DART or NOAA’s GSI-EnKF). This is needed to test high-frequency data assimilation in the FV3 system with similar configurations that have been developed for NSSL’s current experimental Warn-on-Forecast system (called the NEWS-e) using the WRF-ARW core.
3) Work with senior scientists to run case studies to compare the performance of the FV3 system to the NEWS-e.

While a candidate will need to be self-directed, they will work closely with other members of NSSL’s Warn-on-Forecast team, and scientists from the Global Systems Laboratory in Boulder, Colorado and the Environmental Modeling Center in College Park, Maryland.

Desired Qualifications:

- MS in Physics/Math/Oceanography/Meteorology/Computer Science or related areas with at least 4 years of experience as a scientific programmer working with geophysical or fluid dynamics models OR PhD in one of those areas and at least 2 years of experience as a scientific programmer.
- Proficiency using open source scripting software (e.g., Python, NCL, CSH), compiled languages (e.g., FORTRAN, C, C++), and modern software management tools (e.g., Make, Git).
- Experience with running models and with modifying code within models (e.g., HWRF, GFS, FV3, COAMPS, WRF, OMEGA, MPAS). Experience with NCAR’s DART or GSI software is also a plus.
- Demonstrated experience running codes on large-scale HPC resources.
- Some knowledge of ensemble data assimilation theory and techniques.
- Ability to work and communicate effectively within a team environment.
- Preparing technical analyses and reports for senior level management.
Annual Salary: Commensurate with experience and qualifications.

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

Tracy Reinke
Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304

treinke@ou.edu
REFERENCE: FV3 Programmer

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Research Associate for Warn-on-Forecast

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma (OU) seeks to fill a Research Associate position to support the National Oceanic and Atmospheric Administration (NOAA) National Severe Storms Laboratory’s (NSSL) Warn-on-Forecast (WoF) research and development effort. NOAA’s WoF program seeks to develop a storm-scale ensemble prediction system to help increase warning lead times of severe thunderstorms, heavy rainfall, and tornadoes. The incumbent will interact collaboratively with researchers and operational forecasters within the National Weather Center (NWC) in Norman, OK, NOAA National Weather Service (NWS) National Centers for Environmental Prediction (NCEP) Weather Prediction Center (WPC), and Weather Forecast Offices (WFOs) to support the development and evaluation of WoF system for operational testing and implementation. The dynamic research and operational working environment at the NWC in Norman, OK will provide the candidate with ample opportunities for career advancement.

Responsibilities:
1. Assist in the development and testing of the experimental WoF ensemble data assimilation and prediction system.
2. Set-up and run the WoF system for real-time experiments.
3. Assist in the development of novel post-processing, visualization, and verification tools using MET software.
4. Assist in assessing the usability, strengths, and limitations of the WoF system both in NWS operations and during Hazardous Weather Testbed experiments.
5. Attend meetings, workshops, and professional conferences to present research results and interact with operational forecasters, collaborators, and users.
6. Write technical and training materials and attend seminars to stay abreast of current developments in related areas.
7. Perform related duties as assigned.

Desired Qualifications:
1. A Master’s degree or higher in Meteorology, Atmospheric Science, Computer Science or related area.
2. Experience in high-resolution NWP model, advanced data assimilation systems (such as GSI, EnKF, WRF DA), DTC’s Model Evaluation Toolkit (MET), probabilistic severe weather forecasting, and research to operations (R2O).
3. Strong programming (e.g., Fortran, C, C++) and scripting (e.g. Python, NCL) skills, and experience with Linux (or Unix) operating systems.
4. Excellent oral and written communication skills.
5. Ability to work and communicate effectively in diverse team environments.

Normal working hours will be observed except for occasional irregular hours during real-time experiments.

The position is expected to begin October 2018. Salary will be competitive depending on experience and qualification with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/.

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

Tracy Reinke
Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304
treinke@ou.edu
REFERENCE: WoF JTTI 0718

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Post-Doctoral Research Associate – Boundary Layer Observations and Convective Storms

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) working collaboratively with NOAA’s National Severe Storms Laboratory (NSSL), is currently looking for a highly-qualified Post-Doctoral Research Associate to provide scientific and meteorological expertise in the area of boundary layer observations and convective storms. The Post-Doc will also provide technical support for systems that observe the boundary layer including the NSSL Collaborative Lower-Atmosphere Mobile Profiling System (CLAMPS) that contains a Doppler Wind Lidar (DWL), Atmospheric Emitted Radiance Interferometer (AERI) and Microwave Radiometer (MWR). This position will include participation and support in the field for upcoming research projects that will use these systems to observe the pre-convective and near-storm environments of supercells and tornadoes.

As part of this opportunity, the Post-Doc will be invited to explore new applications of the NSSL CLAMPS ground-based remote-sensing systems. Furthermore, the Post-Doc will be encouraged to explore the potential for new boundary-layer profiling systems under development in the international community (e.g. water vapor differential absorption lidars or unmanned aircraft systems) to enhance NSSL’s mission of understanding severe convective weather processes and supporting National Weather Service forecast operations. The incumbent will be encouraged to propose revised priorities for observing and analyzing the boundary layer in relation to severe convective weather as new knowledge is generated. The incumbent will work directly with research scientists at NSSL and will be encouraged to collaborate actively with scientists from other institutions with expertise in boundary-layer profiling (e.g. OU and the Air Resources Laboratory and Earth System Research Laboratory within NOAA). The position will be based at NSSL in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research, and academic environment containing a number of NOAA and OU organizations.

The principal duties of this position are:

1. Provide scientific and technical expertise in the development and use of current NSSL boundary-layer profiling systems, as well as the exploration of experimental systems, for a) the advancement of our understanding of severe convective weather and b) the consideration of systems that could enhance the NOAA upper-air observing network.

2. Contribute to field operations for upcoming field programs that will use NSSL CLAMPS to observe the pre-convective and near-storm environments of severe convective weather, as well as lead individual scientific analysis of data collected by NSSL CLAMPS.

3. Contribute to scientific publications and present scientific results at professional off-site conferences, workshops, symposia, and hazardous-weather-related outreach events.

The minimum qualifications for the position are:

1. A PhD (or ABD) in meteorology or atmospheric science;
2. Expertise in areas of ground-based remote sensing, dynamics of the boundary layer, and severe convective weather. Applicants should identify experience in these areas, including remote-sensing systems, software used to analyze data from remote-sensing systems, and application of ground-based remote-sensing observations to understand severe convective weather and related phenomenon.

Preferred qualifications include experience with field work and peer-reviewed publications.
Normal working hours will be observed except for irregular hours during field data collection and/or conferences/workshops conducted at remote sites. The incumbent will work under general supervision, and is expected to contribute to field efforts as needed, but will work independently and determine his/her own specific research project(s) related to the position description.

The beginning salary for this position will be based on qualifications and experience and will include University benefits. Information on benefits may be found at: http://hr.ou.edu/. The expected start date for the position is no later than January 2019.

Appointment to this position is contingent on passing a Department of Commerce/NOAA background check.

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

Tracy Reinke, Executive Director, Finance and Operations
University of Oklahoma CIMMS
120 David L. Boren Blvd., Suite 2100
Norman, OK 73072-7304

treinke@ou.edu
ATTN: Boundary Layer Post-Doc
Women in Science Regional Conference
Notre Dame, IN

Networking & Professional Development
hosted by the Association of Women in Science - Notre Dame Chapter

- Academic advice panel
- Work outside of academia panel
- Research & publications panel
- Workshops & resume reviews
- Oral presentations
- Poster session
- Publishing exhibition
- Cocktail networking & social

Registration opens June 18th

#2018WISC

awis.nd.edu/WSC
awis@nd.edu
The 2nd Midwest Student Conference on Atmospheric Research, sponsored by the Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign, will be held on 27-28 October 2018. Information including registration, abstract submission, schedule of events, and hotel block reservations is posted on the conference website (http://www.atmos.illinois.edu/mscar).

This cross-disciplinary conference is open to undergraduate and graduate students from universities across the Midwest. Oral and poster presentations are invited in the following research areas:

- Applications of Remote Sensing
- Cloud Microphysics and Chemistry
- Energy, Environment and Society
- Variability and Predictability in the Earth System
- Data Science and Visualization

The deadline to submit abstracts and register for the conference is 28 September 2018. Any questions regarding abstracts should be directed to mscar-abstracts@atmos.illinois.edu and questions involving registration should be sent to mscar-register@atmos.illinois.edu. Authors of accepted presentations will be notified in early October. The cost of registration is $60, which includes the keynote banquet and lunch on Sunday. Presenting a talk or poster is not a requirement to attend the conference and there is no fee for abstract submission.

For additional information, please contact mscar@atmos.illinois.edu.
Greetings from The Graduate School at Purdue University,

*Please forward* this opportunity to your students, your colleagues, and to the student organizations in your area. Students who *join the mailing list* by *June 1, 2018*, will be entered in a *drawing for a free registration*!

At the **Big Ten+ Graduate School Expo** on September 30 and October 1, 2018, students will:
- get an inside look at graduate school and the application process,
- receive advice about funding opportunities from experts,
- attend a premier graduate school fair and network with representatives from more than 100 of the nation’s top graduate institutions.

This two-day mini-conference is especially designed for students who are looking for advanced degrees:
- Science
- Technology
- Engineering
- Mathematics
- Pharmaceutical Sciences
- Other science-related disciplines.

The **Big Ten+ Graduate School Expo** awarded more than **$55,000 in travel scholarships** last year. Women and members of underrepresented groups are encouraged to attend.

Visit [http://www.purdue.edu/gradschool/gradexpo/index.html](http://www.purdue.edu/gradschool/gradexpo/index.html) for more information and to join our mailing list!

Thank you,

Lee Gordon
Director, Office of Graduate Admissions
The Graduate School
Purdue University

*If you do not wish to receive further communication regarding this year’s event, please reply with the word “unsubscribe” in the subject line to* gradexpo@purdue.edu.
CIMMS Research Fellow – Impact Based Decision Support Services

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

The duties of this position are:

1) Develop expertise in meteorological forecasting and the delivery of Impact-Based Decision Support Services (IDSS).
2) Develop skills in operation of Linux and Windows workstations.
3) Participate in NWS designed simulations to study the effectiveness of newly developed applications and improve field use.
4) Review technical and professional publications, and attend seminars to stay abreast of current developments in meteorological and hydrological applications.
5) Attend meetings and professional conferences to understand new meteorological and hydrological applications and interact with the operational community.
6) Perform related duties as assigned to support the development and delivery of training for IDSS.

The minimum qualifications for the position are:

1) A Master’s Degree in Meteorology, Atmospheric Science or related area;
2) Or a Bachelor’s Degree in Meteorology, Atmospheric Science or related area and at least three years’ experience in operational meteorology, operational hydrology or applied research;
3) Emphasis will be placed on applicants with experience in: forecast operations, operational forecast systems, and adult education.

Applicants should identify expertise with any of the following areas: operational forecasting, providing decision support information, and adult education. Excellent oral and written communication skills are needed for the position. Please indicate experience with Linux (or UNIX) operating systems, National Weather Service systems, and commercial software applications specifically Dreamweaver, Articulate, PowerPoint, and other graphic design programs and software. Please also indicate any experience with emergency management or similar fields.

Normal working hours will be observed except for occasional irregular hours during system testing or workshops. Incumbents will receive training and gain expertise in the latest meteorological forecasting systems. This position is located in Kansas City, Missouri.

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists/hydrologists, and NWSTC management. The incumbent will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.
Beginning salary is based on experience and qualifications. The position is a **limited-term 18-20 month** appointment and has the standard university insurance benefits but does not include retirement.

The position is expected to begin by September 1, 2018.

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

Tracy Reinke  
Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK  73072-7304  
treinke@ou.edu  
JOB REFERENCE: NWSTC IDSS

_The University of Oklahoma is an equal opportunity/Affirmative Action employer._
CIMMS Research Associate – Meteorological Software Developer

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists, instructors and developers at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, in transitioning the Weather Event Simulator for AWIPS-2 into AWIPS-2 baseline code.

The duties of this position are:

1) Develop technical expertise with the AWIPS-2 (Advanced Weather Interactive Processing System) software.
2) Develop and add functionality to the Weather Event Simulator software for AWIPS-2 compatibility.
3) Develop the Weather Event Simulator software to enhance utility by NWS field office staff including forecasters, science officers and focal points.
4) Adapt the Weather Event Simulator software for potential use on the NWS operational hardware and software platforms.
5) Acquire skills in operation of Linus and Windows workstations and virtual machines.
6) Participate in experimental warning/forecast exercises and WDTD training workshops.
7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological software applications.
8) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area; or
2) A Bachelor’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area and at least three years fulltime related experience.

Emphasis will be place on applicants with software support and development experience including:
- Strong knowledge of Java, JMS and Eclipse
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming
- User Interface Design using tools like SWT

Applicants should identify expertise within any of the following areas: Linux shell scripting or software/hardware support; Python; Service Oriented Architectures or the Spring framework; Hibernate; SWT or Eclipse RCP; PostgreSQL database; Experience with basic computer networking; XML; Eclipse Integrated Development Environment; Project management, teamwork; Oral and written communications.

Normal working hours will be observed except for occasional irregular hours during data
collection, warning/forecast experiments, or workshops conducted at remote sites. Incumbents will receive training and gain expertise in the latest training technology and warning decision-making methodologies.

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

The beginning salary will be based on qualifications and experience with benefits provided through The University of Oklahoma (https://hr.ou.edu/). The start date for the position is negotiable.

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

Tracy Reinke  
Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK  73072-7304  
treinke@ou.edu  

JOB REFERENCE: Meteorological Software Development

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Research Associate – Severe Weather Warning Decision Making Training

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma is currently seeking a Research Associate to collaborate with scientists and instructors at the National Weather Service (NWS) Warning Decision Training Division (WDTD) in Norman, OK, on training for severe weather warning decision making.

The duties of this position are:

1) Integration of NWS operational warning decision making principles of science, technology, and human factors into support of training development and delivery.
2) Collaborate with WDTD instructors in a project-based environment to mine warning operations data and develop/deliver training on severe weather warning decision making principles.
3) Develop technical expertise with AWIPS-2, WSR-88D products and applications, and the warning decision-making process.
4) Acquire skills in operation of Linux and Windows workstations to support development of simulations and other tools for warning decision-making training.
5) Participate in experimental warning/forecast exercises and WDTD training workshops.
6) Attend meetings and professional conferences to become knowledgeable of new meteorological applications and to interact with the applied-research community.
7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological applications.
8) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Meteorology, Atmospheric Science, or related area; or
2) A Bachelor’s Degree in Meteorology, Atmospheric Science, or related area and at least three years fulltime experience in operational meteorology or applied research.

Emphasis will be place on applicants with severe weather experience.

Applicants should identify expertise within any of the following areas: experience in teaching/training; operational experience related to severe weather forecasting and warning, including winter weather forecasting techniques; warning-related inputs such as radar, satellite, lightning, and convective allowing models; weather analysis software (such as AWIPS); graphic design or illustration; project management/teamwork; oral and written communication, including collaboration tools; Linux (or Unix) operating systems; programming skills (Python, Perl, JAVA, object oriented programming, GIS-based, web-based, etc.); human factors and human performance technology.

Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments, or workshops conducted at remote sites. Incumbents will receive training and gain expertise in the latest training technology and warning decision-making methodologies.
Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists, and WDTD management. The incumbent will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.

The beginning salary will be based on qualifications and experience with benefits provided through The University of Oklahoma (https://hr.ou.edu/). The start date for the position is negotiable.

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

Tracy Reinke  
Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK  73072-7304  
treinke@ou.edu  

JOB REFERENCE: WDTD – Severe Weather Training

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Research Associate - High-Resolution Fire Weather

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma (OU) is currently looking for a Research Associate to provide scientific and meteorological expertise, and technical support for the development of advanced mesoscale hazardous weather analysis and prediction techniques. A key focus will be development and enhancements to fire weather forecasting guidance, including prediction of fine resolution high impact environments conducive to rapid fire ignition and spread, utilizing observational and Numerical Weather Prediction (NWP) convection-allowing model data. The position will be based at the Storm Prediction Center (SPC) in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the lightning, fire weather, and severe storm communities.

The principal duties of this position are:

1. Provide scientific and technical expertise in the development, testing, evaluation, and transition to NWS operations of innovative tools and technologies designed to improve the prediction of fire weather conditions, thunderstorms, and lightning.

2. As appropriate, contribute to Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements relating to fire weather forecasting.

3. As needed, represent CIMMS/SPC by contributing to scientific publications and attending off-site conferences, workshops, symposia and hazardous-weather-related outreach events.

4. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Master’s or PhD Degree in Meteorology, Atmospheric Science or related area.

2. Emphasis will be placed on applicants with knowledge and experience in areas of fire weather, thunderstorms, lightning, numerical weather prediction models/ensemble systems including convection-allowing models, and application of statistical techniques including creation of probabilistic hazard information.

Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, and Linux (UNIX) environments including AWIPS2/N-AWIPS systems. Excellent oral and written communication skills are highly desired.
Normal working hours will be observed except for occasional irregular hours during data collection, warning/forecast experiments or workshops conducted at remote sites. General supervision will be provided by CIMMS staff with technical advice provided by SPC management. The incumbent works under general supervision but is expected to work independently and determine action to be taken in handling all but unusual situations. This is a non-supervisory position, although the incumbent may serve as a leader of technical teams. The salary for this position will be based on education, experience, skills, and knowledge. Information on University benefits may be found at: http://hr.ou.edu.

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

Tracy Reinke, Executive Director, Finance and Operations  
University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100  
Norman, OK 73072-7304  
treinke@ou.edu  
ATTN: Fire Weather

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.
Are you interested in making friends from around the world?
Are you interested in increasing your marketability by improving your intercultural competence?
Do you enjoy learning about other cultures AND sharing things about your own culture?
Would you be willing to mentor a new College of Science student (freshman, transfer or exchange)?

Global Partners are Purdue College of Science student leaders who work to create a comfortable and safe environment in which entering students can individually and collectively “find their feet” in the Purdue community. These partners provide new students with the tools and knowledge they need to start their college career, and aid them throughout their transitions as first-year students at Purdue University.

The Global Partners program is also dedicated to enhancing cross-cultural understanding and to helping all students involved expand their knowledge of cultures other than their own.

Join us for the 2018/19 school year for monthly dinners, trips and activities (free for you!) that are designed to help you learn about other cultures........while having fun!

Orientation (2018 on Aug 19)  Trip to the Eitlejorg in Indianapolis  Learning a folk dance

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

Getting acquainted at one of our events

To sign up for Global Science Partners, please follow this link: https://purdue.ca1.qualtrics.com/jfe/form/SV_8Bo4arvA9JsL6f3

Halloween Service Event at the YMCA – October 2018

For more information, please contact Terry Ham at: hamt@purdue.edu or globalsciencepartners@purdue.edu
FAQ’s for SAIL Grant Application

**Will I be able to save the application and finish at a later date?**

No. Please take a few minutes to review the questions included in the application and ensure you have the information you need prior to starting the application.

**How will my IPO be notified of my submission?**

IPO’s have access to all online applications submitted for their respective College.

**What if I am coordinating with another College to run my program, should I submit two applications?**

No, only one application per program should be submitted. Multiple entries will be denied. The College that is fiscally responsible for the program should be designated on the application.

**What if I am applying for a Subsidy Grant for a current program and an Exploratory Grant for a new program?**

You should submit one application per program. If you wish to request a subsidy for a program that will be taking students abroad during 2019 and you wish to also explore the feasibility of a new program for 2020, this is considered two separate programs.

**How long do I have to use the Exploratory Grant if awarded?**

Travel must be completed prior to August 2019 if you are awarded the Exploratory Grant. Travel taking place after this date will forfeit funds.

**Who is eligible to apply for the Intercultural Pedagogy Grant (IPG)? Are staff and Graduate TA’s eligible, or only faculty?**

Faculty and staff who will be leading a program are eligible to apply for the IPG Grant. Graduate Teaching Assistants are not eligible at this time.

**What if I lead multiple programs and wish to request funding for each?**

You should submit one application per program. Therefore if you wish to request funding for more than one program, you will need to submit more than one application.

**I wish to apply for more than one grant type for the program I am conducting. Do I need to submit multiple applications?**

No, you may apply for more than one grant type per application. As long as the requests are for the same program (i.e. you may apply for both the IPG grant and the Subsidy grant via one application).

**I have run my program in the past and this year we are making changes, should I select “New” or “Repeat” program?**

The program is considered a repeat program even if leadership or location have changed. It would be considered a new program if the overall design or credit associated with the program has changed.

**Why do I need to list the Business Manager on my application?**

Business Managers will be copied on the grant award notifications and asked to supply account numbers for approved award transfers.

**May I submit the application if I am not the Primary Leader?**

Yes, although you will need to indicate the primary leader name and email address. Notifications regarding awards will be sent to the Primary Leader email.
When are applications due?

Applications will be available to complete online until September 7th. Applications will no longer be accepted after this date.

When and how will I be notified?

Notifications will be sent to applicants no later than October 1. Applicants will receive a separate email notification for each grant type that they apply for.

If I receive a SAIL Grant, does this mean my program has been fully approved?

No. SAIL Grant funding does not equal program approval. Current Program Proposals must be fully approved each year by your Department Head, College Dean or designee, and Director of Study Abroad.

What if I am denied for the grant, can I still run a study abroad program?

Yes, you may still coordinate a study abroad program without the supplemental funding from International Programs. Grants are limited and we will not be able to offer funding to all programs.

What if I am awarded a subsidy and my program is cancelled?

Funds for cancelled programs will be forfeited. You may re-apply during the next grant cycle.

I would like to have a copy of the questions associated with the program description to reference prior to starting the application.

Address the following:

- Was this program offered in the past and if so, did it actually run as a study abroad program, or was it cancelled?
- What is the proposed duration of the program?
- What is the anticipated total cost of the program or estimated per student cost?
- Briefly describe the courses to be taught and list goals and potential learning outcomes for the program.
- What overseas university partners within your college, if any, will you collaborate with during this trip?
- Is your head of department aware of this proposal? Is he/she committing any funds toward the proposed study abroad program? If so, how much?
Study Abroad Intercultural Learning (SAIL) Grant Application

and

Intercultural Pedagogy Grant (IPG) Application

Overview

All applications must be submitted to International Programs via this application no later Friday, September 7, 2018.

If a proposed study abroad program will be administered by multiple Colleges/Schools, please submit only one application per program. Please select the College/School that will be fiscally responsible for the program and submit the application accordingly. If there is a shared responsibility, then please select one International Program Officer (IPO) to approve the application. Multiple submissions for the same program may be denied.

Types of SAIL Grants

1) SAIL Subsidy - is awarded for the sole purpose of reducing the cost of a program. It can only be used as a program subsidy.

2) SAIL Successor – is awarded to a faculty/staff who is in the process of training another faculty/staff member to lead a particular in the future.

3) SAIL Exploratory – is a travel grant to be used to explore possible programs to be offered during Winter Break 2019/20, Spring Break 2020 or Summer 2020.
Please note that preference for SAIL Subsidy grants will be given to faculty/staff who:

1. will lead a Summer 2019 study abroad program that is 14 days or longer in length, and/or;

2. has successfully completed an Intercultural Pedagogy Grant (IPG) program, and/or;

3. has a proven track record of successfully selecting, assessing and reporting on intercultural learning outcomes from a previous study abroad program OR who is a first time enrollee in the Intercultural Pedagogy (IPG) Grant program. This year’s program will be held during the fall semester. (See below for further details).

Meeting criteria does not guarantee a SAIL Subsidy grant will be awarded. Applications related to Winter Break and Spring Break programs will not be excluded from consideration especially if program leaders have a track record of having successfully selected, assessed and reported on intercultural learning outcomes from a previous study abroad program or if the program leader is applying for the IPG program for the first time.

Please note that all SAIL grants are limited in number. Decisions will be released via e-mail on or before October 1st

Intercultural Pedagogy Grant (IPG)
A limited number of grants will be offered to faculty/staff who will lead a Winter Break 2018/19, Spring Break 2019 or Summer 2019 study abroad program and who have not enrolled in IPG in the past. Time commitment approximates 25 hours total during the Fall 2018 semester. (See schedule below). A $2,000 discretionary award will be granted to participants after they successfully complete all IPG requirements. To successfully complete requirements participants must:

- Attend all four (4) IPG workshops and submit related assignments. (Please note that all four workshops are offered on one day, Wednesday, December 5th, for participants who prefer that option)
- Choose at least one intercultural learning outcome for their program
• Meet with a designated staff member within the Center for Intercultural Learning, Mentorship, Assessment and Research (CILMAR) to discuss the selected intercultural learning outcome and assessment method
• Embed intentional opportunities for students to engage in reflective, experiential intercultural learning while on the study abroad program
• Assess the intercultural learning of students in their program and submit a Qualtrics based report that analyzes the student learning that occurred

IPG participants will learn how to choose appropriate intercultural learning outcomes, be introduced to valid and reliable intercultural learning assessment tools, improve their understanding of how to facilitate intercultural learning during a study abroad program, and become aware of options for engaging in scholarship and learning of study abroad.

Please note that IPG grants are limited in number. Decisions will be released via e-mail on or before October 1st

Intercultural Pedagogy Grant (IPG) Workshops

**IPG Workshop #1**
Tuesday October 16th 2:00 pm – 4:00 pm STEW 311
Wednesday October 17th 2:00 pm – 4:00 pm STEW 311
Wednesday, December 5th 8:00 am - 5:00 pm STEW 311

**IPG Workshop #2**
Tuesday, October 23 2:00 pm - 4:00 pm STEW 311
Wednesday, October 24 2:00 pm – 4:00 pm STEW 311
Wednesday, December 5 10:00 am – 12:00 pm STEW 311
IPG Workshop #3
Tuesday, October 30  2:00 pm – 4:00 pm  STEW 311
Wednesday, October 31  2:00 pm – 4:00 pm  STEW 311
Wednesday, December 5  1:00 pm – 3:00 pm  STEW 311

IPG Workshop #4
Tuesday November 6  2:00 pm – 4:00 pm  STEW 311
Wednesday, November 14  2:00 pm – 4:00 pm  STEW 311
Wednesday, December 5  3:00 pm – 5:00 pm  STEW 311

We highly recommend that you print this overview page before beginning the application.