EAPS WEEKLY NEWSLETTER
17 September 2018

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

Facebook
Twitter
Department Magazine (Spring 2018)
Website News

DEPARTMENT NEWS

EAPS COLLOQUIA

Seth Jacobson
Northwestern University
Thursday, September 20, 2018
3:30 PM
HAMP 1252

MACI C. TETRICK, REPRESENTING EAPS, FOR HOMECOMING ROYALTY

As a Homecoming Court Member, Maci C. Tetrick is representing EAPS, College of Science, and a few other activities (see her poster attached). Maci is a senior in Atmospheric Science and is hoping to go into a career in broadcast meteorology. Voting is open from September 10 at

http://www.eaps.purdue.edu/
6 PM - September 19 at midnight on Boilerlink (www.boilerlink.purdue.edu). Voting is open to both undergrad AND graduate students (anyone with a career account!) and Maci needs the support of everyone in the department to help ensure a victory. The candidate with the most number of votes and highest interview score will be crowned as "Homecoming Royalty" at the Homecoming game on Sept. 22. Maci would love to represent Purdue as Homecoming Royalty leading into our 150th Anniversary! Maci would appreciate your vote!

NASA POSTDOCTORAL FELLOWSHIP

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

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

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

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

[See attached flyer for complete information]

CoS STAFF MEETING

At the Spring CoS Staff Meeting with the Dean, several suggested that more such meetings would be very beneficial. As a result, we have scheduled a Fall/Winter meeting as well. Please mark your calendars for:

Monday, December 17
3:00-4:30 p.m.
WTHR 200
Refreshments will be served

A Qualtrics RSVP link will be sent to you closer to time, but wanted to get this notice out now so that calendars could be marked.

APSAC ACCEPTING APPLICATION FOR PROFESSIONAL DEVELOPMENT GRANTS

APSAC has opened the fall application cycle for its individual professional development grants as of Sept. 1. Examples of funded grant applications include but are not limited to professional education or certification; attendance at lectures, conferences and seminars; or tuition assistance for academic classes.

The maximum award amount is $750. Applications for fall grants will be considered for activities occurring from July 1, 2018, to June 30, 2019.

The application process will be completed online, and the deadline is 11:59 p.m. ET Oct. 1 for this grant period. More information and a link to the online application are available here.

Questions may be directed to the Professional Development Subcommittee at APSAC-PD@purdue.edu.

ARE YOU SENDING TO THE PRINTERS?

Please make sure you pick up what you are sending to the printers. A lot of papers are being printed in the Main Office and not being picked up. This is a waste of paper. Therefore, please make sure which printer you are printing to and pick up your copies.
COFFEE/TEA CLUB

Welcome back to the beginning of another semester. Coffee/Tea Club is back after what seems like a very short summer. Note that replacement of coffee/tea and supplies (cups, sugars, creamers, etc.) are bought by the money collected. Therefore, no money, no supplies.

Coffee and tea is available in Room 2201/HAMP. Coffee/Tea is $1.00 a cup or $20.00/month unlimited payable to Kathy Kincade in Room 2169D/HAMP. Note that coffee/tea supplies (i.e., cups, sugars, creamer, etc.) are only for those who pay for coffee or tea. If paying per cup, you may place your dollar in the money tin located on top of the coffee/tea machine or in the cup if using Room 2173.

FACULTY SEARCH COMMITTEE WORKSHOPS SCHEDULED FOR FALL

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

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


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.

GSA AND AGU RECEPTIONS

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

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

FAILING FORWARD

Wellness Programs in the CoRec has a new series for students. The Failing Forward series helps teach students the importance of resilience and bouncing back from setbacks. Students can learn how to deal with failure in a healthy way, boost optimism in the midst of adversity, and gain the professional skill of handling conflict well.

The series is free and begins Sept. 25 and runs through Oct. 4, occurring on Tuesdays and Thursdays from 5-6pm. Registration ends Sept. 24. To register or for more information, email evans240@purdue.edu.

[See attached flyer]

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, and click on the link that says, “Course Reserve.”

STUDENT NEWS
POSTDOCTORAL RESEARCH SCIENTIST POSITION

The Lamont-Doherty Earth Observatory of Columbia University invites applications for a Postdoctoral Research Scientist position in atmosphere and climate dynamics. The successful candidate will work on a NSF funded project on the analysis and modeling of the mechanisms of climate variability and change on interannual to centennial timescales in the Mediterranean region. The position will be located at the Lamont-Doherty Earth Observatory in Palisades, NY in the research group of Richard Seager, Yochanan Kushnir and Naomi Henderson and will also collaborate with Isla Simpson of NCAR.

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

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

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

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

[See attached flyer]

CIMMS DATA QUALITY OFFICE – RESEARCH ASSOCIATE

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

[For additional information see attached flyer]

UNDERGRADUATE RESEARCH SOCIETY OF PURDUE CALLOUT

Callout meeting will be Monday, Sept. 17 in BRNG 2280 at 6pm. Undergraduate Research Society of Purdue is a new student-led organization which emphasizes professional development and community-building of researchers across campus with practice talks, guest speakers, and topic discussions brought up by the membership.

[See attached flyer]

HONDURAS MAYMESTER 2019

Teach in Honduras while earning 7 credits. May 13-May30, 2019. $1000 scholarships! For more information go to www.edci.purdue.edu/honduras

[See attached flyer]
APPLY NOW FOR 2019 AMS SCHOLARSHIPS AND FELLOWSHIPS

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

- 21 Senior Scholarship awards ranging from $2000 to $10,000 are available in 2019 for outstanding undergraduate students entering their final year of study. Applications are due on 8 February 2019.
- AMS Graduate Fellowships include a $25,000 stipend and partial travel support to attend the AMS Annual Meeting. Applications are due on 11 January 2019.
- The AMS Freshman Undergraduate Scholarship program is open to all high school students and designed to encourage study in the atmospheric and related sciences. Applications are due on 8 February 2019.
- AMS Minority Scholarships award funding to minority students who have been traditionally underrepresented in the sciences, especially Hispanic, Native American, and Black/African American students. Applications are due on 8 February 2019.

To learn more and apply click [here](http://www.eaps.purdue.edu/).

EDF CLIMATE CORPS 2019 PROGRAM

Application Launch and Deadlines

- Our 2019 application opens on September 10th.
  - Students should apply online by visiting our [website](http://www.eaps.purdue.edu/)
- We will have two application deadlines:
  - December 3rd at 11:59pm PT and January 7th at 11:59pm PT.
  - Candidates should apply by the first deadline to be considered for the first round of host placement decisions!

- Please note EDF Climate Corps welcomes applications from international graduate students that are eligible for OPT and CPT work authorization through your university. We also accept J1 visa students. Please see our [work authorization](http://www.eaps.purdue.edu/) policy for details.

Outreach Materials

- You may find our 2019 fellow brochure, and our 2019 [job description](http://www.eaps.purdue.edu/). Please feel free to share widely!

Informational Webinars

- Interested students should consider joining our virtual sessions/webinars on:
  - Wednesday, October 17th at 12:00pm ET/9:00am PT  
    - Register [Here](http://www.eaps.purdue.edu/)
  - Friday, November 16th at 3:00pm ET/12:00pm PT  
    - Register [Here](http://www.eaps.purdue.edu/)

NSF 2026 IDEA MACHINE COMPETITION

The National Science Foundation (NSF) announces the launch of the [NSF 2026 Idea Machine](http://www.eaps.purdue.edu/), a prize competition to help set the U.S. agenda for fundamental research in science, technology, engineering, and mathematics (STEM) and STEM education. Participants can earn cash prizes and receive public recognition by suggesting the pressing research questions that need to be answered in the coming decade, the next set of “Big Ideas” for future investment by NSF. It’s an opportunity for researchers, the public and other interested stakeholders to contribute to NSF’s mission to support basic research and enable new discoveries that drive the U.S. economy, enhance national security and advance knowledge to sustain the country’s global leadership in science and engineering.
Entries will be accepted through **October 26, 2018**. For more information, including entry instructions, eligibility, rules, and judging criteria, please visit the [NSF 2026 Idea Machine website](http://www.eaps.purdue.edu/).

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**NISO SCHOLARSHIPS WEEK**

A bundled week of information sessions on all distinguished awards NISO coordinates and how to secure the campus endorsement.

**September 17-21 2018**

[See attached flyer for complete information]

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**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 attached flyer for complete information]

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**APPLICATION FOR POSTDOCTORAL RESEARCH ASSOCIATE**

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

Complete applications, including cover letter, a curriculum vitae, a publication list, and contact information for three references, must be submitted online to [https://www.princeton.edu/acadpositions/position/8341](https://www.princeton.edu/acadpositions/position/8341).

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**GRADUATE & POSTDOC PROFESSIONAL DEVELOPMENT SERIES**

Graduate students and postdocs from all Purdue schools and colleges welcome! Attendees may find it helpful to bring their current CV to the very first workshop.

**All workshops will be held in SMTH 118**  
**From 5:00 PM to 6:30 PM**

**Tuesday, September 18**  
- Elevator Pitch & Networking  
  - Build or refine your personal brand and elevator pitch; practice networking strategies.

**Wednesday, September 26**  
- Interviewing Skills  
  - Understand all stages of the interview process: prepping for, communication during, and follow-up to an interview.

http://www.eaps.purdue.edu/
Tuesday, October 2

- Negotiation Skills
  - Learn how to evaluate and negotiate a job offer.

No RSVS needed. SMTH 118 can seat 70; arrive early to find seating! Questions please Email: askCCO@purdue.edu.

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**INTENSIVE WRITING EXPERIENCES FOR DISSERTATION WRITERS**

In partnership with the Graduate School's Office of Professional Development, the Purdue Writing Lab will host two Intensive Writing Experiences for Dissertation Writers over Fall Blitz: one for those just Getting Started in the process and one for those who are Revising an existing draft. The purpose of the Intensive Writing Experience is to give doctoral students in good standing with their programs time to write or to revise their dissertations with support from Writing Lab staff. Participants will receive some writing instruction, will spend significant time writing or revising their dissertations, and will network with other dissertation writers on campus. Writers should plan to spend the entire day in this program. **A separate application is required (due between 9/17 and 9/24)** and may be found on the Writing Lab webpage for graduate writing events: [https://owl.purdue.edu/writinglab/students/graduate_writing_events.html](https://owl.purdue.edu/writinglab/students/graduate_writing_events.html)

**FALL BLITZ**
October 8th
10AM – 5 PM
Separate Application Needed
Deadline 9/24

For questions pertaining to the application, please contact Vicki Kennel at [vick.kennel@gmail.com](mailto:vick.kennel@gmail.com)

[See attached flyers for additional information]

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**FREE EVENING SCIENCE HELP CENTER**

**BIOLOGY + CHEMISTRY + MATH**

COSINE (College of Science Instructional Nightly Enrichment) is a FREE tutoring program to help students succeed in first year science courses. COSINE offers event tutoring right in your own backyard. Our goal is to help you develop problem-solving skills needed to do your homework. Please visit one of our locations for assistance.

For optimal tutoring results, bring your text books and class notes.

COSINE at Shreve Hall
Room C107
University Residences Support Center
Monday & Wednesday 7:30 – 10:00 pm
Tuesday & Thursday 6:00 – 9:00 pm

[See attached flyer for complete information]

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**JILL HRUBY FELLOWSHIP SEEKING APPLICANTS**

We are now accepting applications for the 2019 Jill Hruby Fellowship in National Security Science and Engineering. The Hruby Fellowship is one of Sandia National Laboratories’ most prestigious postdoctoral fellowships. This fellowship aims to develop women in the engineering and science fields who are interested in technical leadership careers in national security. Jill Hruby is the first woman to have been appointed director of a large, multidisciplinary national security laboratory and has been a driving force for other women at Sandia and across the country to follow careers in technical leadership. **Deadline for applying is November 1, 2018.**

[See attached flyers for additional information]

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**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 more 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 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]

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.

[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

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

http://www.eaps.purdue.edu/
their thesis work or have provided a new approach or insight to a major problem, as evidenced by a recognized impact in their field.

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

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

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

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### CLIMATE PROGRAM OFFICER

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

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### 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]

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### 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]

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**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]

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**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.

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**REGISTRATION IS NOW OPEN FOR 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.

For more information and to join the mailing list visit http://www.purdue.edu/gradschool/gradexpo/index.html

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**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.

[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
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]

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**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]

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**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]

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**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]

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**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]

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**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](https://www.science.purdue.edu/Current_Students/global-science-partners/index.html)

[See attached flyer for more information]
Purdue’s Study Abroad Office in September will hold two workshops on department study abroad programs.

The "Developing a Study Abroad Program" workshop will provide a general overview of how to get started in developing a study abroad program. Topics will include responsibilities of the program leader, how to submit a proposal, developing a budget, and managing student enrollment. Any faculty or staff interested in study abroad programming is invited to attend.

There are two session options to choose from, both held in Rawls Hall, Room 2077:

* Sept. 19 -- 1:30-3 p.m.
* Sept. 20 -- 10-11:30 a.m.

The "Study Abroad Budgets" workshop will cover budget basics, cancellation policies, study abroad deposits and the student billing process. This WebEx session will be 3:30-4:30 p.m. Sept. 20.

Registration should be completed online by Sept. 18. For more information, contact Paula Memmer, departmental study abroad manager, at 765-494-3894 or pmemmer1@purdue.edu.

BREENA HOLLAND TO SPEAK AT PURDUE LECTURES IN ETHICS, POLICY AND SCIENCE

The Purdue Lectures in Ethics, Policy, and Science proudly present the first speaker in this year's series. Breena Holland is a Professor in the Department of Political Science and the Environmental Initiative at Lehigh University. Her primary research is in the areas of environmental policy and political theory and focuses on issues of valuation, justification, and participation in contemporary approaches to policy analysis and administrative rulemaking. She is currently engaged in several local projects related to environmental justice, food justice, and government accountability.

Her talk will take place on Thursday, September 20th at 4 PM in BRNG 2290. Free pizza and beverages will be provided.

[See attached flyer with abstract]

IRB TRAINING FOR INVESTIGATORS AT WL CAMPUS

IRB training for Purdue research faculty, staff and students is scheduled for 9-10 a.m. Sept. 19. The session is titled "Navigating the IRB Application Submission Process."

Human Research Protection Program staff will demonstrate how to submit a new Institutional Review Board protocol application, followed by a question-and-answer session and one-to-one assistance on submissions. The session will be in an interactive environment at the computer lab at Hicks Undergraduate Library, Room G959.

Registration is required in advance as space is limited. To register, send an email to irb@purdue.edu and include registrant name, department, email address and principal investigator's name.

To schedule an appointment or attend walk-in hours, go to the IRB website or call 765-494-5942.

Additional sessions are scheduled for Oct. 17, Nov. 14 and Dec. 12.

DR. RUSSELL A. MITTERMEIER, 2018 INDIANAPOLIS PRIZE WINNER

Purdue University College of Veterinary Medicine Presents Biodiversity Conservation: A Global Priority. Approaches to Saving Our Natural World with Particular Reference to Primates and Tropical Forests by Dr. Russell A. Mittermeier, 2018 Indianapolis Prize Winner, on
Monday, October 10, 2018
LYNN 1136
10:30 AM

[See attached flyer for abstract and information]

5TH ANNUAL C4E ENVIRONMENTAL
COMMUNITY FALL MIXER

FRIDAY, OCTOBER 12, 2018
4:30-7:30PM
ATRIUM & PRUSIECKI BANQUET ROOM,
DAUCH ALUMNI CENTER

Registration Deadline is Friday, September 28th

[See attached flyer for more information]

ADOPTEE STUDENT UNION – NEW PURDUE
ORGANIZATION: ADVISOR NEEDED

My name is Bai Lynn Brauer and I am a sophomore studying Political Science; but I am currently still in Exploratory Studies.

I am trying to start a new student organization called the Adoptee Student Union, but we need a full time faculty or staff member of Purdue who is not a graduate student.

The purpose of the Adoptee Student Union is to unite Purdue students who have been adopted internationally or domestically in an organized common bond. Our vision is to create a support group for adoptees, educate the community more about adoption, and donate our resources to adoption related causes.

If you know anyone who would be interested, please feel free to forward this email to them/have them contact me at this email (boilerupasu@gmail.com)

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

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

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Katherine Huseman (khuseman@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html.

http://www.eaps.purdue.edu/
Pieces of Planets Amongst the Asteroids

Seth Jacobson
Northwestern University

Meteorites and asteroids are primary sources of information regarding the history of the Solar System. While some appear to be relatively primitive, others possess evidence of significant evolution, even differentiation. These achondrites, in the case of meteorites, and differentiated asteroid spectral (M-, A-, V-, O-, R-, etc.) types have been interpreted as remnants of disrupted planetesimals (sizes between 100 to 1000 km) which had undergone melting due to short-lived radionuclides. However, I will show that at least some of these bodies, potentially a majority, originate not from disrupted planetesimals but large debris generating impacts on the growing terrestrial planets. Commonly referred to as hit'n'run or catastrophic impacts, these embryo-embryo collisions are common in planet formation simulations and may have left other evidence scattered through the solar system: Earth's moon, obliquity of Uranus, core size of Mercury, northern dichotomy on Mars, etc. Finally, I will demonstrate that Eureka, a Mars Trojan asteroid, and its family members are more likely debris from Mars itself than captured material from the asteroid belt. The talk will end with wild speculation regarding our interpretation of the meteorite record.
Maci Tetrick #9

Major: Atmospheric Science
Class: Senior
School: College of Science

Purduettes
Alpha Omicron Pi, Chapter Historian
Purdue Welcome Center, Student Ambassador and Purdue Gold Coat

Vote September 10- September 19
At: www.boilerlink.purdue.edu

For more information, call 765-494-8976 or visit our website at www.union.purdue.edu/PSUB
The NASA Postdoctoral Program provides fellowships to conduct cutting-edge research at NASA Centers and NASA-affiliated research institutes.

Appointments renewable up to three years
Stipends begin at $60,000 with increases depending on locality and seniority
Open to U.S. citizens, Lawful Permanent Residents, and Foreign Nationals (eligible for J-1 status)
Postdoctoral and Senior Fellowships available
$10,000 for support of professional travel per year
Health insurance and relocation assistance available

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

Opportunities
npp.usra.edu/opportunities/

Apply
npp.usra.edu

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

DUE
March 1
July 1
November 1

Contact
npphelp@usra.edu

Administered by
Universities Space Research Association

@USRAedu
Failing Forward


Indoor Challenge Course  Water Keylogs  Time Trial Games

Prove you have what it takes to build grit and resilience. Conquer the above challenges and learn how to navigate failures and setbacks.

Sept. 25: Mind Games | Sept. 27: Thought Patterns
Oct. 2: Mind Over Matter | Oct. 4: Friend or Foe
5-6pm in the Corec

to register or for more info, email evans240@purdue.edu
CALLOUT
UNDERGRADUATE RESEARCH SOCIETY OF PURDUE

SEPT 17 :: 6PM :: BRNG 2280

Free Pizza!

NEW CLUB ON CAMPUS

Whether you're in research, passionate about research, or just curious about the research process, come to our callout, and we will have the answers for you!

Leadership positions available!
**ARM Data Quality Office – Research Associate**

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

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

**The minimum qualifications for this position are:**
- M.S. in atmospheric science, earth system science, meteorology, or related field
- Strong computer programming skills, particularly in command-line Linux environments

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

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

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

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

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
HONDURAS MAYMESTER 2019

$1000 Scholarships!

CALLOUT
September 20
5:30 p.m.
BRNG 4180
Free Pizza

- Teach in Honduras!
- Earn 7 Credits
- Earn a Global Studies Minor
- May 13-May 30, 2019
- Visit Copán, the Mayan ruins and the Caribbean Sea!

Program Director: JoAnn Phillion — phillion@purdue.edu

more information: www.edci.purdue.edu/honduras
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 1018

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
Graduate and Postdoc Professional Development Series

Fall 2018

Wednesday, September 5
Convert your CV into a résumé
Learn the differences between the two documents, and how to present your skills to different audiences.

Thursday, September 13
LinkedIn: Using Social Media Effectively
Develop a professional virtual presence! Learn how to use social media more effectively in your career planning.

Tuesday, September 18
Elevator Pitch & Networking
Build or refine your personal brand and elevator pitch; practice networking strategies.

Wednesday, September 26
Interviewing Skills
Understand all stages of the interview process: prepping for, communication during, and follow-up to an interview.

Tuesday, October 2
Negotiation Skills
Learn how to evaluate and negotiate a job offer.

All workshops will be held in SMTH 118 from 5:00 PM to 6:30 PM.

Graduate students and postdocs from all Purdue schools and colleges welcome!

No RSVPs needed. SMTH 118 can seat 70; arrive early to find seating!

Questions? Email askCCO@purdue.edu
The Purdue Writing Lab will host two Intensive Writing Experiences for Dissertation Writers over Fall Break: one for those just Getting Started in the process and one for those who are Revising an existing draft. The purpose of the Intensive Writing Experience is to give doctoral students in good standing with their programs time to write or to revise their dissertations with support from Writing Lab staff. Participants will receive some writing instruction, will spend significant time writing or revising their dissertations, and will network with other dissertation writers on campus. Writers should plan to spend the entire day in this program. A separate application is required (due between 9/17 and 9/24) and may be found on the Writing Lab webpage for graduate writing events: https://owl.purdue.edu/writinglab/students/graduate_writing_events.html

For questions pertaining to the application, please contact:

Vicki Kennell
vicki.kennell@gmail.com
Jill Hruby Fellowship

Seeking Applicants!

We are now accepting applications for the 2019 Jill Hruby Fellowship in National Security Science and Engineering. The Hruby Fellowship is one of Sandia National Laboratories' most prestigious postdoctoral fellowships. This fellowship aims to develop women in the engineering and science fields who are interested in technical leadership careers in national security. Jill Hruby is the first woman to have been appointed director of a large, multidisciplinary national security laboratory and has been a driving force for other women at Sandia and across the country to follow careers in technical leadership.

Jill Hruby Fellows have the opportunity to pursue independent research that supports Sandia's purpose: to develop advanced technologies to ensure global peace. In addition to receiving technical mentorship, Jill Hruby Fellows participate in a unique, prestigious leadership development program. To be considered for this fellowship, applicants must display excellent abilities in scientific and/or engineering research and show clear promise of becoming outstanding leaders. Fellows may work at either of Sandia's principal locations in New Mexico and California. All qualified applicants will be considered for this fellowship.

Sandia's competitive wage and benefits package includes an annual salary of $111,200; flexible work arrangements; 11 paid holidays; three weeks of vacation; health, vision, and dental insurance; and a 401(k) savings plan with company match.

Qualifications We Require

- Ph.D. conferred within the past three years or completion of Ph.D. requirements by commencement of appointment (10/1/2019)
- Evidence of strong academic achievement, excellent technical accomplishment, leadership and ability to team effectively
- No previous postdoctoral appointments at a national laboratory (internships excluded)
- Research in areas relevant to national security
- Ability to obtain and maintain a DOE security clearance, which requires US citizenship

Qualifications We Desire

- Creativity and self-motivation
- Good communication skills
- Interest in management/leadership
- Ability to work in a team-oriented, dynamic environment
- Demonstrated interest and/or experience in service to the nation
- Broad-based background and extensive knowledge in one or more of the following areas: bioscience, computing and information science, engineering sciences, geoscience, materials science, nanotechnology and microsystems, and radiation effects and high energy density sciences

The Jill Hruby Fellowship is a three-year appointment and normally commences on October 1, although exceptions may be made to accommodate special circumstances.

For more information, please visit:
http://www.sandia.gov/careers/students_postdocs/fellowships/hruby_fellowship.html
Jill Hruby Fellowship Program

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

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

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

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

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

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

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

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

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

Requirements
Qualifications We Require
• Ph.D. conferred within the past three years or completion of Ph.D. requirements by commencement of appointment
• Evidence of strong academic achievement, excellent technical accomplishment, leadership and ability to team effectively
• No previous postdoctoral appointments at a national laboratory (internships excluded)
• Ability to obtain and maintain a DOE security clearance, which requires US citizenship
• Research in areas meaningful to national security

Qualifications We Desire
• Creativity and self-motivation
• Good communication skills
• Interest in management/leadership
• Ability to work in a team-oriented, dynamic environment
• Demonstrated interest and/or experience in service to the nation
• Broad-based background and deep understanding in one or more of the following areas: bioscience, computing and information science, engineering sciences, geoscience, materials science, nanotechnology and microsystems, and radiation effects and high energy density sciences

Benefits
Sandia’s competitive wage and benefits package for this Fellowship will include an annual salary of $111,200; flexible work arrangements; 11 paid holidays; three weeks of vacation; health, vision, and dental insurance; and a 401(k) savings plan with company match.

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

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

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

*Provide a clear objective of the research, the expected results, and the impact that the proposed work may have on Sandia’s technical capabilities. State the planned approach in order to clarify the direction of the research. Propose a schedule for the research and explain the importance and benefits to Sandia.
COSINE (College of Science Instructional Nightly Enrichment) is a FREE tutoring program to help students succeed in first year science courses. COSINE offers event tutoring right in your own backyard. Our goal is to help you develop problem-solving skills needed to do your homework. Please visit one of our locations for assistance.

COSINE at Shreve Hall
Room C107
University Residences Support Center
Monday/Wednesday 7:30-10:00 pm
Tuesday/Thursday 6:00-9:00 pm

For optimal tutoring results, bring your text books and class notes.

FALL 2018
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*
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 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 PREDOKTORAL 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  


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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.

**Details:** [https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/inphinit/programme-description](https://obrasociallacaixa.org/en/investigacion-y-becas/programa-de-becas-de-posgrado/inphinit/programme-description)
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
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
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
AWIS

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.
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 placed 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.
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](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!

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

For more information, please contact Terry Ham at: hamt@purdue.edu or globalsciencepartners@purdue.edu
Biodiversity Conservation: A Global Priority
Approaches to Saving Our Natural World, with Particular Reference to Primates and Tropical Forests

Dr. Russell A. Mittermeier, 2018 Indianapolis Prize Winner

Biodiversity is the sum total of life on Earth, a living legacy to future generations. What is more, it is an essential underpinning for all human development since, as living creatures ourselves, we depend on the natural world in countless ways. Sadly, biodiversity is being lost almost everywhere on our planet, especially in tropical forests, the richest of all terrestrial ecosystems.

Dr. Russell Mittermeier is a global conservation hero working to protect those incredible places and the species that call them home. A biologist and lifelong conservationist with more than 45 years in the field, Dr. Mittermeier is as comfortable in the boardroom as he is in the jungle. Through his quest to save biodiversity hotspots he’s traveled across 169 countries, discovered more than 20 species new to science, and even has eight named after him!

In this presentation, Dr. Mittermeier discusses why we should be concerned about other life forms with which we share our planet, how we set priorities for conservation action, and where we have succeeded in achieving our objectives. He will, in particular, focus on nonhuman primates, our closest living relatives, 90 percent of which are found in tropical forests, and the strategies employed by Dr. Mittermeier and the IUCN Species Survival Commission Primate Specialist Group over the past 40 years. Dr. Mittermeier is the Chief Conservation Officer for Global Wildlife Conservation, Chair of the IUCN/SSC Primate Specialist Group, and 2018 Indianapolis Prize winner.

Widely viewed as the world’s leading award for animal conservation, the Indianapolis Prize is a significant, internationally recognized conservation initiative of the Indianapolis Zoological Society, Inc., supporting scientists across the world who are successfully preserving wild things and wild places for future generation. Learn more about his journey at IndianapolisPrize.org.
You are cordially invited to attend the

5th Annual C4E Environmental Community Mixer

Food and drinks will be provided.

When: Friday October 12, 2018
4:30-7:30pm
Where: Atrium & Prusiecki Banquet Room,
Dauch Alumni Center

In the spirit of Purdue’s 150th Anniversary, let us showcase how C4E and our students are taking ‘Giant Leaps Toward a Sustainable Economy & Planet’ and innovating today for a sustainable tomorrow.

This event brings together students, staff, and faculty members with interests in environmental research. Please join us to meet new colleagues, share your work, and learn more about the Center for the Environment.

All are welcome but research groups, students, and student organizations are encouraged to present a poster on their environmental research or set up informational displays (registration is required).

Registration Deadline: Friday September 28th
Register today!

Questions? Send us an email at: environment@purdue.edu
ABSTRACT:
Climate change raises a number of challenging questions about the distribution of greenhouse gas emissions reductions. Who should bear the burden of emissions reductions within a given generation? How should emissions reductions be allocated across different generations? This talk presents a 'capabilities approach to climate justice' to consider how to distribute the burden of emissions reductions across generations.