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

Facebook
Twitter
Department Magazine (Spring 2018)
Website News

EAPS IN THE NEWS

Dr. Terry West was recently quoted in a story in CNN about a sinkhole on the White House lawn. You can read the full story, as well as the follow-up story, on CNN’s website.

Dr. Dan Chavas was interviewed by the Purdue University News Service on preparing for hurricane season. You can read that story in full on the Purdue News website.

http://www.eaps.purdue.edu/
EAPS ALUMNUS DR. FEUSTEL TAKES COMMAND OF INTERNATIONAL SPACE STATION

NASA’s Expedition 55 ended with the arrival of three crewmembers back on Earth on Sunday, June 2, marking the transition to Expedition 56. Dr. Feustel (B.S. ’89, M.S. ’91), who was a Flight Engineer during Expedition 55, is now Commander of Expedition 56, following a formal change of command ceremony on Friday, June 1.

You can read more on space.com.

NASA FELLOWSHIP RECIPIENTS

Two EAPS graduate students were selected as NASA Earth and Space Science Fellowship recipients! Their proposals were:

Noel Scudder: Signatures of basalt weathering under cold and icy conditions on Mars

Alex Trowbridge: The evolution of impact basins as a window into the Moon’s thermal history

EAPS STAFF AT SPRING FLING

Thanks to Steven Smith for providing this photo.

NEW EAPS PUBLICATIONS


FAREWELL RECEPTION FOR DR. PAUL SHEPSON

Please join us for refreshments and light hors d’oeuvres to celebrate Dr. Shepson’s career, and wish him well on the next step of his journey. See the event details below, as well as on the attached flyer.

Wednesday, June 20
2:00 – 4:00 P.M.
Leighty Commons
(WTHR South Lobby)

COLLEGE OF SCIENCE STAFF PROFESSIONAL DEVELOPMENT FUND

It is time to request nominations for the Fall 2018 Staff Professional Development Fund. These applications should be for professional development opportunities that will take place during September through December. To apply, please completed the attached application and return it to Angie Teel (teel@purdue.edu) by Monday, June 4. A committee of fellow CoS staff members will then meet to evaluate the...
applications and make the final funding decisions. See the attached flyer for more information.

GEOSCIENTISTS-IN-THE-PARK INTERNSHIPS

The Geoscientists-in-the-Parks Internship Program (GIP), developed by the National Park Service (NPS) Geologic Resources Division in 1996, provides college students and recent graduates 18 – 35 years old with on-the-ground, natural resource, science-based work experience with the NPS. Most GIP internships occur during the summer months, however many fall and winter positions are also available. This program is run in partnership with Environmental Stewards and The Geological Society of America.

For more information, go to the website or see the attached flyer. The application deadline is June 15.

2ND MIDWEST STUDENT CONFERENCE ON ATMOSPHERIC RESEARCH

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

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

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

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

BIG TEN GRADUATE SCHOOL EXPO

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

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

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

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

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

Visit http://www.purdue.edu/gradschool/gradexpo/index.html for more information and to join the mailing list!
RADAR METEOROLOGY POST-DOCTORAL RESEARCH ASSISTANT, UNIV. OF MISSOURI

The School of Natural Resources (SNR) invites applications for a Post-Doctoral Research Assistant in the area of Radar Meteorology. The position will be a 12-month, unranked, non-tenure track, full-time 100% academic research appointment. This is a National Science Foundation funded position that will run through mid-2019 with the potential for extension.

Primary responsibilities will include the analysis of data collected by the University of Missouri dual-polarization X-band meteorological radar (MZZU) and the development of novel radar interpretation methods and tools. Candidates should have a Ph.D. in atmospheric science, or a closely related field, as well as knowledge of Python. Prior experience of radar data analysis is desirable.

To apply for this position, please visit the MU web site at http://hrs.missouri.edu/find-a-job/academic/index.php. Please submit a letter of interest, curriculum vitae or resume, transcripts from all college coursework, and the names and contact information of three professional references. Review of applications will begin immediately and will continue until the position is filled. For additional information about the position, please contact Dr. Patrick Market at marketp@missouri.edu.

CIMMS RESEARCH ASSOCIATE
METEOROLOGICAL SOFTWARE DEVELOPER

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

The duties of this position are:

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

The minimum qualifications for the position are:

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

Emphasis will be place on applicants with software support and development experience including:

- Strong knowledge of Java, JMS and Eclipse
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming

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

http://www.eaps.purdue.edu/
2) A Bachelor’s Degree in Meteorology, Atmospheric Science, or related area and at least three years full time experience in operational meteorology or applied research.

Emphasis will be placed 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/teammwork; oral and written communication, including collaboration tools; Linux (or Unix) operating systems; programming skills (Python, Perl, JAVA, object oriented programming, GIS-based, web-based, etc.); human factors and human performance technology.

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

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NWS meteorologists, and WDTD management. The incumbent will work under general supervision but is expected to determine action to be taken in handling all but unusual situations.

Incumbents in this position are not expected to supervise other employees, but may serve as leaders of technical teams.

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

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

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

JOB REFERENCE: WDTD – Severe Weather Training

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

CIMMS RESEARCH ASSOCIATE
HIGH-RESOLUTION FIRE WEATHER

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

The principal duties of this position are:

1. Provide scientific and technical expertise in the development, testing, evaluation, and transition to NWS operations of innovative tools and technologies designed to improve the prediction of fire weather conditions, thunderstorms, and lightning.
2. As appropriate, contribute to Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements relating to fire weather forecasting.

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

4. Perform related duties as assigned.

The minimum qualifications for the position are:

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

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

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

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

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

http://www.eaps.purdue.edu/
information in support of organized public mitigation activities. Furthermore, probabilistic information has great potential value for decision makers in weather-sensitive industries and for the general public.

Primary Job Responsibilities:

1) Perform collaborative research related to post-processing, including creation of probabilistic hazard information, visualization, and/or verification of convection-resolving ensemble prediction systems;

2) Establish and enhance productive channels for collaboration, transfer of technology and information, and cooperation between NSSL, SPC, EMC, and collaborating partners.

The successful candidate in this position will play a critically important role in linking research and development to operational testing and implementation. Specifically, as a CIMMS employee, he/she will have formal working relationships with experts in severe weather research at the NSSL, operational severe weather forecasters at the SPC, and operational numerical modelers at the EMC. Since NSSL and SPC are in Norman, OK (the home base for the position), and EMC is in College Park, MD, travel to EMC will be required several times a year. The successful candidate may also serve as a convection-resolving model community liaison and collaborate actively with research scientists and forecasters across the U.S. weather community including other NOAA research labs, NCAR, universities, and NWS forecast offices. This position is a unique opportunity for any individual looking to bring cutting-edge research forward and into NWS operations. A successful candidate in this position must be a self-motivated person and able to work across the various organizations and cultures.

Desired Qualifications:

- PhD in the physical sciences (Meteorology/Physics/Math/Remote Sensing or related area) with professional experience as a scientific researcher with programming skills
- Experience with using ensemble prediction systems to create guidance for prediction of high-impact weather.
- Demonstrated success in publishing in peer-reviewed scientific journals.
- Demonstrated proficiency in collaborating effectively with both research and operational forecasting communities, especially in collaborative work environments like the NOAA Hazardous Weather Testbed.
- Proficiency with common programming and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX/Linux environments.
- Ability to write proposals to obtain funding support for research activities.
- Ability to work and communicate effectively in diverse team environments.

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: WoF Liaison

CIMMS RESEARCH ASSOCIATE – AWIPS2

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma currently is seeking a research associate to collaborate with scientists in the National Severe Storms Laboratory’s (NSSL) Warning Research & Development Division on the implementation of severe weather applications to support research to operations initiative via transition into the National Weather Service’s Advanced Weather Interactive Processing System- 2nd generation (AWIPS2) operational software platform.

The duties of this position are:
1. Integration of experimental datasets (ex. Phased Array Radar, Warn-on-Forecast products, multi-sensor products, NUCAPS, satellite, etc.) into AWIPS2;
2. Support and participate in applied research experiments in the Hazardous Weather Testbed;
3. Development of new applications and visualization techniques in the AWIPS2 development environment.

The minimum qualifications for the position are:

1. A Masters Degree in Meteorology, Atmospheric Science, Computer Science/Software Engineering, Geographic Information Systems, or related area;
2. Computer programming experience (Linux, Java, Python, PostgreSQL, Eclipse, etc.);

Applicants should identify expertise with any of the following areas: AWIPS2; Computer Programming; Visualization; Geographic Information Systems. Some knowledge of National Weather Service warning and forecast operations and weather radar would be beneficial. Good oral and written communication skills are needed for the position. Please indicate additional experience with operating systems and programming skills (including web-based and mobile applications) beyond the requirements stated above. 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 the CIMMS leadership. Technical oversight will be provided by CIMMS staff, NSSL scientists, and NSSL management. Appointee will work under general supervision but is expected to determine action to be taken in handling all but unusual situations. Incumbent in this position is not expected to supervise other employees, but may serve as a leader of technical teams. The beginning salary will be based on qualifications and experience with University benefits. Information on benefits may be found at http://www.hr.ou.edu/employment/WorkingatOU.asp. The position is expected to begin May 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 Requisition – AWIPS

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

12TH ANNUAL GRADUATE CLIMATE CONFERENCE

The 12th Graduate Climate Conference (GCC) will be held November 2-4, 2018, at the University of Washington Pack Forest Conference Center.

The GCC is an interdisciplinary climate conference run by graduate students, for graduate students.

Abstract submissions are now open. For more information about the conference, visit the website or see the attached flyer.

CERTIFICATE IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

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

To learn more, visit the program’s website.

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY - CURRENT & INCOMING STUDENTS

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

ASSISTANT PROFESSOR - GEOSPATIAL / REMOTE SENSING ENGINEERING

The State University of New York College of Environmental Science and Forestry (SUNY ESF) in Syracuse, NY, invites applications for an academic-year, tenure-track position at the rank of Assistant Professor in the Department of Environmental Resources Engineering (ERE). The Department seeks applicants to meet teaching and research needs in the area of geospatial engineering with a focus on remote sensing. The position is open to applicants with interdisciplinary backgrounds (e.g. energy, environmental engineering, geography) who possess strong training and expertise in remote sensing and geospatial analysis (e.g. data acquisition and assimilation, data quality, sensor calibration, classification/regression algorithmic development). Candidates with expertise in terrestrial, atmospheric, oceanic or polar remote sensing are encouraged to apply. Applicants must possess advanced skills, knowledge and background to teach courses in both the ERE graduate and the ABET-accredited undergraduate programs. This position will require the ability to work in a collegial manner with a diverse faculty, staff and student body. We are particularly interested in candidates with a commitment to diversity and inclusiveness. For a detailed position description and to apply please visit the website.

UNIVERSITY NEWS

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

ENTERPRISE AND THE ENVIRONMENT SUMMER SCHOOL July 1-13, 2018

The Smith School of Enterprise and the Environment at the University of Oxford. We would like to invite students at the Purdue department for earth, atmospheric and planetary sciences to apply for our Enterprise and the Environment Summer School, which will take place from 1st-13th July 2018 in Oxford. It is a summer school intended for undergraduates, as well as recent graduates passionate about leading environmental change in business, society and government. See attached for more information.

PURDUE’S 150TH SET FOR ‘GIANT LEAPS’ WITH IDEAS FESTIVAL TOPICS

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

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

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

Alicia Mohundro       June 1
Saad Haq              June 1
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 Logan Judy (ljudy@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
An invitation to celebrate the retirement of

Paul Shepson
Jonathan Amy Distinguished Professor
Analytical and Atmospheric Chemistry

Join us as we celebrate twenty-four years of service to Purdue University!

Wednesday, June 20, 2018
2:00pm
Leighty Commons
(WTHR South Lobby)

Refreshments and light hors d'oeuvres.
In 2012, the University created a performance evaluation policy for staff which included a focus on capturing the professional development activities of staff throughout the year. The College of Science firmly believes that participation in professional development provides long lasting benefits to both the individual staff member and their department. As such, the College desires to support these activities.

College of Science Professional Development Philosophy:

- Professional development participation should be available to all full- or part-time, permanent staff—clerical, service, administrative/professional and managerial/professional.
- Professional development should focus on developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- All supervisors are strongly encouraged to allow appropriate amounts of time for each staff person throughout the year to attend trainings that will help them accomplish their professional development goals. Approval for participation in such activities should be based on the business needs of each area.

College of Science Professional Development Fund:

In order to support staff professional development activities, the College has created a Professional Development Fund to financially assist with participation in trainings that involve fees or the purchase of training materials.

Professional Development Fund Guidelines:

- Professional Development funds are to be used to support College of Science staff’s participation in activities that will assist them in developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- Award applications will be requested three times annually with approximately 10 awards per call. Funds requested may be used to defray costs associated with attending professional meetings or seminars, to participate in workshops, or to enroll in professional-oriented courses related to employment responsibilities. The funds must be utilized within two application cycles (Spring awards utilized by the end of Fall, etc.).
- Applications for amounts of up to $1000 will be accepted.
- Individuals are eligible for one award per calendar year.

Application Deadlines:

- Spring Application Call – application due by first Monday in October; decisions made by November 30
- Summer Application Call – application due by first Monday in March; decisions made by April 30
- Fall Application Call – application due by first Monday in June; decisions made by July 31
College of Science
Staff Professional Development Fund Application

Name: ________________________________________________
Position: ____________________________________________
Department: _________________________________________
Phone: ___________________ E-mail: ______________________

1. Title of conference, course name or training program:

2. Dates of activity:

3. Registration deadline (if appropriate):

4. Total amount of funds being requested:

5. Breakdown of complete estimated costs for activity (ex. hotel, airfare, conference registration, etc.):

6. Indicate how participation in this proposed activity will contribute to your professional development. Please attach additional pages if necessary.

__________________________________  ______________________________________
Applicant’s Signature               Supervisor’s Signature

________________________________
Department Head’s Signature
BENEFITS
GIP participants have the opportunity to work at a National Park and gain valuable work experience. Interns are paid a minimum of $3,600 stipend, travel allowance, provided housing (or a housing allowance) for the duration of the project, and are eligible for an AmeriCorps education award.

ELIGIBILITY
Students and recent graduates that are United States citizens or permanent legal residents with a background in natural resource sciences are eligible for the program.

APPLY NOW!
The majority of the positions for spring/summer are advertised in December and January, and fall/winter positions are advertised in May and June of each year at:

www.geosociety.org/gip

About GIP
The Geoscientists-in-the-Parks Internship Program (GIP), developed by the National Park Service (NPS) Geologic Resources Division in 1996, provides college students and recent graduates 18 – 35 years old with on-the-ground, natural resource, science-based work experience with the NPS. Most GIP internships occur during the summer months, however many fall and winter positions are also available. This program is run in partnership with Environmental Stewards and The Geological Society of America.

Program objectives
• Provide on-the-job geoscience and other natural resource science training for college and graduate students and recent graduates 18-35 years old,
• Introduce students and recent graduates to science careers in the NPS,
• Build natural resource science technical capacity for parks and central offices, and
• Enhance the public’s understanding of the natural resource sciences.

Park projects may include
• natural resource research,
• mapping (geology, plants, animals),
• assessing geologic hazards,
• preparing field guides and park resource overviews,
• assisting in natural resource inventories, and
• leading interpretive talks or programs for park visitors.

Do you want to work on a STEM project in a National Park?

Go to: go.nps.gov/gip (NPS web page)
Email: nps_gip_program@nps.gov (email)
2nd Midwest Student Conference on Atmospheric Research
27-28 October 2018, Urbana, IL

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

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

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

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

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

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

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

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

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

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

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

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

Thank you,

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

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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.

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 Linux and Windows workstations and virtual machines.
6) Participate in experimental warning/forecast exercises and WDTD training workshops.
7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological software applications.
8) Perform related duties as assigned.

The minimum qualifications for the position are:

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

Emphasis will be place on applicants with software support and development experience including:

- Strong knowledge of Java, JMS and Eclipse
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming
- User Interface Design using tools like SWT

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

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

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

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

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

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

JOB REFERENCE: Meteorological Software Development

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

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

The duties of this position are:

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

The minimum qualifications for the position are:

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

Emphasis will be place on applicants with severe weather experience.

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

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

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

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    Norman, OK 73072-7304
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    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

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CIMMS Research Scientist – Warn-on-Forecast Liaison

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at The University of Oklahoma seeks to hire a Research Scientist to conduct research in the area of post-processing, information extraction, and hazard information creation for convection-resolving models and serve as a community liaison for the research and operations communities. Specifically, this position will entail research activities focused to maximize the forecast value of convection-resolving models and probabilistic forecast guidance in support of the Warn-on-Forecast (WoF) program. Additionally, the incumbent will interact collaboratively with researchers and forecasters within the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL), the NOAA National Weather Service (NWS) National Centers for Environmental Prediction (NCEP) Storm Prediction Center (SPC), and the NCEP Environmental Modeling Center (EMC) to link WoF-related research and development to operational testing and implementation.

Background:

The NSSL, in collaboration with the SPC and other NOAA and university partners, is leading a Warn-on-Forecast program (WoF) to develop and refine an ensemble-based, convection-resolving model forecast system that will fill the forecast guidance gap between the Watch and Warning spatial-temporal scales, and enable the NWS to issue warnings for hazardous weather events earlier and with reliable probabilistic content. Increasing severe thunderstorm, flash flood, and tornado warning accuracy and lead times is a key NOAA strategic mission goal designed to reduce the loss of life, injury, and economic costs of high-impact weather by providing more trusted weather and water information in support of organized public mitigation activities. Furthermore, probabilistic information has great potential value for decision makers in weather-sensitive industries and for the general public.

Primary Job Responsibilities:

1) Perform collaborative research related to post-processing, including creation of probabilistic hazard information, visualization, and/or verification of convection-resolving ensemble prediction systems;

2) Establish and enhance productive channels for collaboration, transfer of technology and information, and cooperation between NSSL, SPC, EMC, and collaborating partners.

The successful candidate in this position will play a critically important role in linking research and development to operational testing and implementation. Specifically, as a CIMMS employee, he/she will have formal working relationships with experts in severe weather research at the NSSL, operational severe weather forecasters at the SPC, and operational numerical modelers at the EMC. Since NSSL and SPC are in Norman, OK (the home base for the position), and EMC is in College Park, MD, travel to EMC will be required several times a year. The successful candidate may also serve as a convection-resolving model community liaison and collaborate actively with research scientists and forecasters across the U.S. weather community including other NOAA research labs, NCAR, universities, and NWS forecast offices. This position is a unique opportunity for any individual looking to bring cutting-edge research forward and into NWS operations. A successful candidate in this position must be a self-motivated person and able to work across the various...
organizations and cultures.

**Desired Qualifications:**

- PhD in the physical sciences (Meteorology/Physics/Math/Remote Sensing or related area) with professional experience as a scientific researcher with programming skills
- Experience with using ensemble prediction systems to create guidance for prediction of high-impact weather.
- Demonstrated success in publishing in peer-reviewed scientific journals.
- Demonstrated proficiency in collaborating effectively with both research and operational forecasting communities, especially in collaborative work environments like the NOAA Hazardous Weather Testbed.
- Proficiency with common programming and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX/Linux environments.
- Ability to write proposals to obtain funding support for research activities.
- Ability to work and communicate effectively in diverse team environments.

**Annual Salary:** Commensurate with experience and qualifications.

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University of Oklahoma CIMMS  
120 David L. Boren Blvd., Suite 2100 Norman, OK 73072-7304  
treinke@ou.edu  
REFERENCE: WoF Liaison

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ABSTRACT SUBMISSIONS NOW OPEN FOR THE
12TH ANNUAL GRADUATE CLIMATE CONFERENCE
SUBMISSION DEADLINE: JUNE 1, 2018

We are pleased to announce the 12th Graduate Climate Conference (GCC), which will be held November 2-4, 2018 at the University of Washington Pack Forest Conference Center.

The GCC is an interdisciplinary climate conference run by graduate students, for graduate students. The organizers of GCC strive to feature a diverse representation of students and research topics to create a broader, more inclusive community for emerging leaders in climate-related fields.

We encourage students from all backgrounds and stages of their graduate careers to apply. GCC highlights research from a variety of disciplines from the physical, natural, and social sciences and humanities, including, but not limited to:

- anthropology
- atmospheric sciences
- biology
- communication sciences
- environmental sciences
- economics
- engineering
- ethics
- geography
- geology
- law
- oceanography
- public policy
- resource management

We highly encourage abstracts from students with traditionally underrepresented backgrounds.

Lodging and meals are covered for all participants. Limited travel funding also available.

For more information and access to the application, visit our website www.graduateclimateconference.com

THE 12TH ANNUAL GCC IS ORGANIZED BY GRADUATE STUDENTS AT THE UNIVERSITY OF WASHINGTON IN COORDINATION WITH GRADUATE STUDENTS AT MIT
Are you interested in making friends from around the world?
Are you interested in increasing your marketability by improving your intercultural competence?
Do you enjoy learning about other cultures AND sharing things about your own culture?
Would you be willing to mentor a new College of Science student (freshman, transfer or exchange)?

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

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

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

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

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

Getting acquainted at one of our events

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

Halloween Service Event at the YMCA – October 2018

For more information, please contact Terry Ham at:  hamt@purdue.edu  or  globalsciencepartners@purdue.edu