EAPS WEEKLY NEWSLETTER

18 June 2018 | EAPS on Facebook | EAPS on Twitter

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

Facebook
Twitter
Department Magazine (Spring 2018)
Website News

EAPS FACULTY MEETINGS

September 18
October 23
November 20
3:00 PM
HAMP 3201

EAPS PRIMARY COMMITTEE MEETINGS

October 30
November 13

EAPS FACULTY/STAFF RETREAT

August 17, 2018
8:30 AM – 4:00 PM
Beck Agricultural Center

EAPS WELCOME BACK PICNIC

August 17, 2018
4:00 PM – 7:00 PM
Cumberland Park, North Shelter

EAPS ALUMNUS DR. FEUSTEL TAKES 9TH CAREER SPACEWALK

EAPS alumnus and NASA astronaut Dr. Drew Feustel took a 6.5-hour spacewalk on Thursday, June 14, the 9th of Dr. Feustel’s career. Dr. Feustel has now spent the third-most cumulative time during spacewalks, surpassing NASA astronaut Peggy Whitson’s record of 60 hours and 21 minutes. Read more at https://www.space.com/40889-nasa-astronauts-iss-spacewalk-expedition56-webcast.html.
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)

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!

STUDENT NEWS

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.

http://www.eaps.purdue.edu/
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma is currently seeking a research scientist to collaborate with scientists in the National Severe Storms Laboratory’s (NSSL) Warning Research & Development Division on the development of scientific applications, algorithms, and applied research that assists forecasters in the warning decision-making process for severe convective weather events. The incumbent will work to develop probabilistic severe convective weather guidance for the Forecasting A Continuum of Environmental Threats (FACETs) project.

The duties of this position are:

1. Developing and/or testing new single radar and multi-sensor (e.g., satellite, lightning, numerical models) algorithms and techniques (e.g., machine learning) for short-term probabilistic prediction and nowcasting;

2. Acquire and apply expertise in severe local storms and the warning-decision-making process;

3. Design and lead applied research and operational experiments in the Hazardous Weather Testbed’s Experimental Warning Program that facilitate the evolution of how severe convective weather threats are analyzed and communicated;

4. Attend meetings and professional conferences to present research results and interact with collaborators and users; formally publish results when appropriate;

5. Review technical and professional publications and attend seminars to stay abreast of current developments in meteorological and remote sensing science.

The minimum qualifications for the position are:

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

2. Experience with scientific programming on UNIX/Linux using a high level language (e.g. C++, Java, Python)

3. Background in radar meteorology and radar analysis

4. Experience with statistical methods or software for meteorological data analysis and visualization

5. Interest in new radar algorithm development for severe storm detection and diagnosis

6. Ability to communicate scientific research through conference presentations, formal publications and technical documents

Applicants should identify expertise with any of the following areas: Severe Local Storms; Machine Learning; Statistics; Warning Decision Making; Weather Radar; Lightning Data; Numerical Modeling; Remote Sensing and Satellite. Strong oral and written communication skills are needed for the position. Please indicate experience with Linux (or UNIX) operating systems, programming skills (including web-based and mobile applications) and Geographic Information Systems.

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 radar and other remote sensing technology and warning decision-making.

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NSSL scientists, and NSSL management. Works 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 and supervise students.

The beginning salary will be based on qualifications and experience with University benefits. Information on benefits may be found at https://www.hr.ou.edu. The position is expected to begin July 2018.

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

http://www.eaps.purdue.edu/
CIMMS RESEARCH FELLOW – IMPACT BASED DECISION SUPPORT SERVICES

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

The duties of this position are:

1) Develop expertise in meteorological forecasting and the delivery of Impact-Based Decision Support Services (IDSS).

2) Develop skills in operation of Linux and Windows workstations.

3) Participate in NWS designed simulations to study the effectiveness of newly developed applications and improve field use.

4) Review technical and professional publications, and attend seminars to stay abreast of current developments in meteorological and hydrological applications.

5) Attend meetings and professional conferences to understand new meteorological and hydrological applications and interact with the operational community.

6) Perform related duties as assigned to support the development and delivery of training for IDSS.

The minimum qualifications for the position are:

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

2) Or a Bachelor’s Degree in Meteorology, Atmospheric Science or related area and at least three years’ experience in operational meteorology, operational hydrology or applied research;

3) Emphasis will be placed on applicants with experience in: forecast operations, operational forecast systems, and adult education.

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

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

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

Beginning salary is based on experience and qualifications. The position is a limited-term 18-20 month appointment and has the standard university insurance benefits but does not include retirement.

http://www.eaps.purdue.edu/
The position is expected to begin by September 1, 2018.

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

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

JOB REFERENCE: NWSTC IDSS

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

CIMMS RESEARCH ASSOCIATE
METEOROLOGICAL SOFTWARE DEVELOPER

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

The duties of this position are:

1) Develop technical expertise with the AWIPS-2 (Advanced Weather Interactive Processing System) software.

2) Develop and add functionality to the Weather Event Simulator software for AWIPS-2 compatibility.

3) Develop the Weather Event Simulator software to enhance utility by NWS field office staff including forecasters, science officers and focal points.

4) Adapt the Weather Event Simulator software for potential use on the NWS operational hardware and software platforms.

5) Acquire skills in operation of Linus and Windows workstations and virtual machines.

6) Participate in experimental warning/forecast exercises and WDTD training workshops.

7) Review technical/professional publications and attend seminars to stay abreast of current developments in meteorological software applications.

8) Perform related duties as assigned.

The minimum qualifications for the position are:

1) A Master’s Degree in Computer Science, Computer Engineering, Meteorology, Atmospheric Science, or related area; or

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

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

- Strong knowledge of Java, JMS and Eclipse
- Basic understanding of relational database design
- Intermediate knowledge of standard query language (SQL) for simple to complex queries
- Strong understanding of Object Oriented Programming
- User Interface Design using tools like SWT
- 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 (OU) is currently looking for a Research Associate to provide scientific and meteorological expertise, and technical support for the development of advanced mesoscale hazardous weather analysis and prediction techniques. A key focus will be development and enhancements to fire weather forecasting guidance, including prediction of fine resolution high impact environments conducive to rapid fire ignition and spread, utilizing observational and Numerical Weather Prediction (NWP) convection-allowing model data. The position will be based at the Storm Prediction Center (SPC) in Norman, OK within the National Weather Center (NWC), a highly collaborative forecasting, research and academic environment containing a number of NOAA and OU organizations. The incumbent will work directly with development meteorologists and operational forecasters at the SPC, and will have opportunities to interact with NOAA and academic scientists within the NWC, as well as scientists and forecasters in the lightning, fire weather, and severe storm communities.

The principal duties of this position are:

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

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

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

4. Perform related duties as assigned.

The minimum qualifications for the position are:

1. A Master’s or PhD Degree in Meteorology, Atmospheric Science or related area.
2. Emphasis will be placed on applicants with knowledge and experience in areas of fire weather, thunderstorms, lightning, numerical weather prediction models/ensemble systems including convection-allowing models, and application of statistical techniques including creation of probabilistic hazard information.

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

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

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

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

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.

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

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.

FULL BRIG DEADLINES APPROACHING

Many faculty have expressed an interest in applying for Fulbright Awards. These come in two categories: a 2-12 month US Scholar Award and a 2-6 week Specialist Program Award.

You can read more about these programs using information provided through this link: https://www.purdue.edu/provost/faculty/prestigiousawards.html

The deadlines are rapidly approaching. August 1 is the deadline for the Scholar Award; July 11 is the deadline for the Specialist Award.

Christopher Lukasik (clukasik@purdue.edu) is a Provost’s Fellow this year and is coordinating the applications for both awards for Purdue.

Please contact Chris if you have an interest in putting in an application.

PROGRAMS PREPARE FACULTY TO LEAD

Twenty faculty members have completed professional development programs designed to prepare them to take on leadership roles.

The Big Ten Academic Alliance (BTAA) Academic Leadership Program and the Purdue Insights Forum are both designed to help faculty interested in taking on administrative roles. Although both programs will help faculty prepare for leadership positions, each program takes a distinct approach to achieving the goal. Read more at: https://www.purdue.edu/newsroom/purdutoday/releases/2018/Q2/programs-prepare-faculty-to-lead.html.

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

Jay Melosh
June 23
Indrajeet Chaubey
July 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 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.
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.
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

If you do not wish to receive further communication regarding this year’s event, please reply with the word “unsubscribe” in the subject line to gradexpo@purdue.edu.
CIMMS Research Scientist - MRMS / FACETs

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma is currently seeking a research scientist to collaborate with scientists in the National Severe Storms Laboratory’s (NSSL) Warning Research & Development Division on the development of scientific applications, algorithms, and applied research that assists forecasters in the warning decision-making process for severe convective weather events. The incumbent will work to develop probabilistic severe convective weather guidance for the Forecasting A Continuum of Environmental Threats (FACETs) project.

The duties of this position are:
1. Developing and/or testing new single radar and multi-sensor (e.g., satellite, lightning, numerical models) algorithms and techniques (e.g, machine learning) for short-term probabilistic prediction and nowcasting;
2. Acquire and apply expertise in severe local storms and the warning-decision-making process;
3. Design and lead applied research and operational experiments in the Hazardous Weather Testbed’s Experimental Warning Program that facilitate the evolution of how severe convective weather threats are analyzed and communicated;
4. Attend meetings and professional conferences to present research results and interact with collaborators and users; formally publish results when appropriate;
5. Review technical and professional publications and attend seminars to stay abreast of current developments in meteorological and remote sensing science.

The minimum qualifications for the position are:
1. A Ph.D. Degree in Meteorology, Atmospheric Science, or related area;
2. Experience with scientific programming on UNIX/Linux using a high level language (e.g. C++, Java, Python)
3. Background in radar meteorology and radar analysis
4. Experience with statistical methods or software for meteorological data analysis and visualization
5. Interest in new radar algorithm development for severe storm detection and diagnosis
6. Ability to communicate scientific research through conference presentations, formal publications and technical documents

Applicants should identify expertise with any of the following areas: Severe Local Storms; Machine Learning; Statistics; Warning Decision Making; Weather Radar; Lightning Data; Numerical Modeling; Remote Sensing and Satellite. Strong oral and written communication skills are needed for the position. Please indicate experience with Linux (or UNIX) operating systems, programming skills (including web-based and mobile applications) and Geographic Information Systems.

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 radar and other remote sensing technology and warning decision-making.

Supervision will be provided by CIMMS staff. Technical oversight will be provided by CIMMS staff, NSSL scientists, and NSSL management. Works 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 and supervise students.
The beginning salary will be based on qualifications and experience with University benefits. Information on benefits may be found at https://www.hr.ou.edu. The position is expected to begin July 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
ATTN: FACETs Scientist

The University of Oklahoma is an equal opportunity/Affirmative Action employer.
CIMMS Research Fellow – Impact Based Decision Support Services

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

The duties of this position are:

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

The minimum qualifications for the position are:

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

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

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

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

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

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

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

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

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

The duties of this position are:

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

The minimum qualifications for the position are:

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

Emphasis will be 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.*
CIMMS Research Associate – Severe Weather Warning Decision Making Training

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

The duties of this position are:

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

The minimum qualifications for the position are:

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

Emphasis will be place on applicants with severe weather experience.

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

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

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

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

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

JOB REFERENCE: WDTD – Severe Weather Training

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

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

The principal duties of this position are:

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

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

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

4. Perform related duties as assigned.

The minimum qualifications for the position are:

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

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

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

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

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

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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 climate 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 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!

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

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