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

Facebook
Twitter
Department Magazine
Website News

DR. FEUSTEL TO RECEIVE HONORARY DOCTORATE DEGREE

EAPS alumnus and NASA astronaut Dr. Drew Feustel received an honorary doctorate degree from space during spring commencement.

Dr. Feustel earned a bachelor’s degree in solid Earth sciences and a master’s degree in geophysics, both in EAPS. He then earned his PhD from Queen’s University.

“Purdue’s tradition has always required that honorary degree recipients be present at commencement but, given the mission Drew has undertaken on behalf of science and his fellow citizens, our Trustees felt an exception in this case...
is more than warranted,” said Purdue President Mitch Daniels in a press release. “Plus, it will give our graduates an exceptionally fun and unique way to remember their special day.”

For more information, read the Purdue University press release. Video of the ceremony can be viewed from the Purdue University Facebook page.

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**EAPS UNDERGRADUATE STUDENT RECEIVES HOLLINGS SCHOLARSHIP**

Abby Sebol, an EAPS undergraduate student majoring in atmospheric science, has been chosen as a recipient of the NOAA Hollings Scholarship.

The Ernest F. Hollings Undergraduate Scholarship, named in honor of South Carolina Senator Ernest “Fritz” Hollings, provides undergraduate students with awards that include academic assistance for two years of full-time study and a 10-week paid internship at a NOAA facility during the summer. Only 120 undergraduate students per year are selected.

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**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.

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**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.

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**2ND MIDWEST STUDENT CONFERENCE ON ATMOSPHERIC RESEARCH**

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

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

- Applications of Remote Sensing
- Cloud Microphysics and Chemistry
- Energy, Environment and Society
- Variability and Predictability in the Earth System
- Data Science and Visualization
The deadline to submit abstracts and register for the conference is **28 September 2018**. See the attached flyer for more information.

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

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**CIMMS RESEARCH ASSOCIATE**

**HIGH-RESOLUTION FIRE WEATHER**

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

http://www.eaps.purdue.edu/
conferences, workshops, symposia and hazardous-weather-related outreach events.

5. 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 objective analysis techniques, numerical weather prediction models/ensemble systems including convection-allowing models, severe thunderstorms, lightning, fire weather, and application of statistical techniques.

Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, Linux (UNIX) environments including AWIPS2/N-AWIPS systems, and high performance computing 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: Surface Analysis

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

CREEK RUN ENVIRONMENTAL ENGINEERING
JOB OPPORTUNITY

Creek Run LLC Environmental Engineering is seeking qualified, recent graduates for a career opportunity in the environmental consulting industry. Creek Run, located in Montpelier, Indiana, has been in business for over 25 years, and is a full service environmental consulting firm specializing in underground storage tank (UST) compliance, soil and groundwater remediation, and environmental site investigations. Below is a description of the job opening. We are hoping to fill the position as quickly as possible. For further details regarding Creek Run, please visit our website at www.creekrun.com. Interested candidates are asked to submit a copy of their resume via email to Adam Lenz at alenz@creekrun.com.

Field Geologist/Scientist Position Opening

Creek Run LLC Environmental Engineering, an environmental consulting company located in Montpelier, Indiana, is looking for a self-motivated, team-oriented individual to fulfill a field geologist/scientist position with the opportunity for career advancement. Candidate must have, at a minimum, a Bachelor degree in geology, environmental science, environmental engineering, or related field. Job duties include soil and groundwater sample collection, technical report writing, subcontractor oversight, and data entry. Creek Run is a growing environmental consulting company that offers competitive salaries and great benefits including paid time off, paid holidays, health insurance, and a retirement plan with employer match.

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.

FORREST RESEARCH FOUNDATION FELLOWSHIPS

The Forrest Research Foundation awards prestigious fellowships to postdoctoral researchers undertaking their world class research at any one of the Western Australian universities.

Offered to outstanding postdoctoral researchers from all disciplines, Forrest Fellows are selected based on their:

• Exceptional academic achievements
• Developed collaborations with outstanding researchers in their field
• Potential to make a positive difference in the world through their research

Value

• Forrest Fellowships are valued at over $115,000 per annum for 3 years
• Fellows are accommodated at Forrest Hall premium one and two bed apartments located on the Swan River and designed to suit the needs of academics intent on achieving excellence in their field.

The application deadline is May 18, 2018. For more information, see the attached flyer, or go to www.forrestresearch.org.au.

2018 COLLEGE OF SCIENCE GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS

The deadlines for the 2018 College of Science Graduate Student International Travel Awards have been announced. For travel between July 1, 2018 and December 31, 2018 the deadline is 4:00 P.M. on June 1, 2018. Students must be full-time PhD students in the College of Science, and must be making an oral or poster presentation at an international conference. Priority will be given to travel to make an oral presentation at a conference, attendance at an interdisciplinary conference, and/or students who have passed their prelims.

To apply, send the following electronically as one file to Robin Sipes (rsipes@purdue.edu):

• CV (2 page limit)
• Brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• Web link to conference
• Letter of support from research advisor

For more information, see the attached flyer.

CIMMS RESEARCH SCIENTIST – WARN ON FORECAST NUMERICAL MODELER

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

Desired Qualifications:

□ PhD in the physical sciences (Physics/Math/Remote Sensing/Meteorology or related area) with professional experience as a scientific researcher and programmer.

□ Experience with running numerical weather prediction models and familiarity with ensemble data assimilation methods (WRF/DART and/or GSI-EnKF experience is a plus).

□ Proficiency with common programing and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX environments.
Ability to work and communicate in a team environment effectively.

Ability to write proposals to obtain funding support for research activities.

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: WoF Data Assimilation

For more information, see the attached flyer.

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**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/SoftwareEngineering, 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.
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

Attention: all first year college of science students! See the attached flier for information about free dinners, trips, and activities that are designed to help you learn about other cultures...while having fun!

POC: Terry Ham: hamt@purdue.edu or globalsciencepartners@purdue.edu

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.

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

UNIVERSITY NEWS

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.

BIRTHDAYS

Robin Tanamachi May 16
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
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
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.
Forrest Fellows are outstanding researchers of exceptional ability and resourcefulness.

forrestresearch.org.au | t: +61 8 6488 5598
The Forrest Research Foundation awards prestigious fellowships to postdoctoral researchers undertaking their world class research at any one of the Western Australian universities.

Offered to outstanding postdoctoral researchers from all disciplines, Forrest Fellows are selected based on their:
- Exceptional academic achievements
- Developed collaborations with outstanding researchers in their field
- Potential to make a positive difference in the world through their research

Value
- Forrest Fellowships are valued at over $115,000 per annum for 3 years
- Fellows are accommodated at Forrest Hall - premium one and two bed apartments located on the Swan River and designed to suit the needs of academics intent on achieving excellence in their field

Partner Universities
- Curtin University
- Edith Cowan University
- Murdoch University
- The University of Notre Dame
- The University of Western Australia

The Forrest Research Foundation is made possible by the Minderoo Foundation in collaboration with the five Western Australian universities.

Apply
2018 Forrest Fellowship applications open 20 March until 18 May 2018.

Contact
E: admin@forrestresearch.org.au
T: +61 8 6488 5598
www.forrestresearch.org.au
To Whom It May Concern,

Creek Run LLC Environmental Engineering is seeking qualified, recent graduates for a career opportunity in the environmental consulting industry. Creek Run, located in Montpelier, Indiana, has been in business for over 25 years, and is a full service environmental consulting firm specializing in underground storage tank (UST) compliance, soil and groundwater remediation, and environmental site investigations. Below is a description of the job opening. We are hoping to fill the position as quickly as possible. For further details regarding Creek Run, please visit our website at www.creekrun.com. Interested candidates are asked to submit a copy of their resume via email to Adam Lenz at alenz@creekrun.com.

Field Geologist/Scientist Position Opening

*Creek Run LLC Environmental Engineering, an environmental consulting company located in Montpelier, Indiana, is looking for a self-motivated, team-oriented individual to fulfill a field geologist/scientist position with the opportunity for career advancement. Candidate must have, at a minimum, a Bachelor degree in geology, environmental science, environmental engineering, or related field. Job duties include soil and groundwater sample collection, technical report writing, subcontractor oversight, and data entry. Creek Run is a growing environmental consulting company that offers competitive salaries and great benefits including paid time off, paid holidays, health insurance, and a retirement plan with employer match.*

We look forward to hearing from you. If you have any questions please contact Creek Run anytime.

Adam Lenz, LPG #2574
Senior Project Manager
CIMMS Research Scientist – Warn On Forecast Numerical Modeler

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

Background:
CIMMS in collaboration with NSSL is funded to develop and demonstrate the value from a probabilistic ensemble-based convection-resolving model forecast system to help increase lead times for hazardous weather events. Increasing severe thunderstorm, flash flood, and tornado warning lead times is a key NOAA strategic mission goal designed to reduce the loss of life, injury, and economic costs of high impact weather. A successful candidate for this position will conduct a collaborative research program to improve NSSL’s storm-scale NWP efforts by researching improvements and/or alternative approaches to our current convective-scale ensemble and hybrid prediction systems. Candidates will be expected to develop new research efforts in one or more of the following areas: improvement of ensemble performance via algorithm development and/or the use of stochastic approaches, optimizing the use of high-resolution radar and satellite observations for convective scale data assimilation, or the use of machine learning for data assimilation or for post-processing of ensemble output. While a candidate will need to be self-directed, they will work closely with other members of NSSL’s Warn on Forecast team. The candidate will also have opportunities to participate in NOAA’s Hazardous Weather Testbed experiments each year, as well as collaborate with scientists from our partners at the National Weather Center as well as other NOAA laboratories working on high-impact convective weather. The candidate will be expected to present his/her work at national conferences and publish in peer-reviewed journals regularly.

Desired Qualifications:
- PhD in the physical sciences (Physics/Math/Remote Sensing/Meteorology or related area) with professional experience as a scientific researcher and programmer.
- Experience with running numerical weather prediction models and familiarity with ensemble data assimilation methods (WRF/DART and/or GSI-EnKF experience is a plus).
- Proficiency with common programming and scripting languages (emphasis on FORTRAN, CSH, Python languages) in UNIX environments.
- Ability to work and communicate in a team environment effectively.
- Ability to write proposals to obtain funding support for research activities.

The beginning salary will be based on qualifications and experience with benefits provided through The University of Oklahoma (https://hr.ou.edu/ Employees/New-Employees-at-OU/OU-Benefits-Overview). 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
ATTN: WoF Data Assimilation

*The University of Oklahoma is an equal opportunity/Affirmative Action employer.*
Geoscientists-in-the-Parks
Internships

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

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.

go.nps.gov/gip (NPS web page)
nps_gip_program@nps.gov (email)
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 Associate - High-Resolution Fire Weather

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

The principal duties of this position are:

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

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

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

4. Perform related duties as assigned.

The minimum qualifications for the position are:

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

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

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

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

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

The University of Oklahoma is an Equal Opportunity/Affirmative Action employer.
CIMMS Research Associate - Surface Objective Analysis

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 emphasis will be enhancements to objective analysis of the mesoscale 4-D environment, focusing on improvements to the current hourly SPC Mesoscale Analysis incorporating observational and NWP regional plus convection-allowing model data, to support a dynamically consistent analysis system that bridges seamlessly across the mesoscale-stormscale environment. 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 analysis and short-term prediction of hazardous mesoscale phenomena, focusing on thunderstorms, lightning, severe thunderstorms and fire weather.

2. Assist in the development of a unified and consistent convective storm analysis and forecasting system that will serve as a foundational component for multiple service dimensions across the NWS and larger weather enterprise.

3. As appropriate, contribute to Hazardous Weather Testbed experiments to test and evaluate guidance and products central to SPC core mission requirements of hazardous mesoscale weather.

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

5. 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 objective analysis techniques, numerical weather prediction models/ensemble systems including convection-allowing models, severe thunderstorms, lightning, fire weather, and application of statistical techniques.
Applicants should identify experience in software development including compiled and scripting programming languages, web page development, graphic design/visualization, Linux (UNIX) environments including AWIPS2/N-AWIPS systems, and high performance computing 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: Surface Analysis

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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 programing 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

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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
2018 College of Science Graduate Student International Travel Awards

**Deadline: 4:00 PM June 1, 2018**

For travel between July 1, 2018 and December 31, 2018

~ 2 or 3 awards ranging **up to $800** for international travel will be awarded~

**Prerequisites:**

- must be a full-time PhD student within the Department in the College of Science
- must be making an oral or poster presentation at an international conference

**Priority will be given to:**

- travel to make an oral presentation at a conference
- attendance at an interdisciplinary conference
- students who have passed their prelims

**To apply, please send electronically as one file:**

- CV (2 page limit)
- brief summary of research (1 page limit)
- brief statement of purpose for attending conference specifying whether your presentation is oral or poster
- provide web link to conference
- letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu