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DEPARTMENT NEWS

ADVANCE PURDUE/OVPEC FACULTY SEARCH
COMMITTEE WORKSHOPS

This workshop is open to all faculty and required for serving on a search committee. The sessions will be held Sept. 14 and Oct. 14, both from 8:15 a.m. to noon and both in the Hall for Discovery and Learning Research, Room 131. A light breakfast will be served.

For those that may be on future faculty search committees, the info and registration for next round of required workshops is via the link below (needs to be completed before you can serve on a search committee): http://goo.gl/B2PamV

COLLOQUIA

Wanchen Wu-PhD Candidate
The Effects of Continental Aerosols on the Eyewall of a Typhoon
Tuesday, Sept. 13, 2016
4:00 PM
HAMP 2201

EAPS MEETINGS & EVENTS

OUTSTANDING ALUMNI EVENTS
September 23, 2016
HAMP 2201

GSA
(PURDUE ALUMNI AND FRIENDS RECEPTION)
September 26, 2016
Hyatt Regency Denver at CCC
Mineral Hall C
7:00 PM - 9:00 PM

SEG RECEPTION
October 17, 2016
Hyatt Regency (Windsor Rm.)
300 Reunion Boulevard
Dallas, TX
6:00-8:00 PM

FALL 2016 - FACULTY MEETINGS
September 20, 2016
October 18, 2016
November 29, 2016
3:00 PM
HAMP 3201
Peter Colarco-NASA Goddard Space Flight Center
Aerosol Modeling Applications in the NASA GEOS-5 Earth System Model

Thursday, Sept. 15, 2016
3:30 PM
HAMP 1252

EAPS DEFENSES

PhD Defense - Qianwen Luo
September 27 at 2:00 PM
ABE 205
Advisor: Wen-wen Tung

PhD Defense - Shaoqing Liu
September 29 at 3:00 PM
HAMP 3201
Advisor: Qianlai Zhuang

PhD Defense - Wanchen Wu
October 3 at 1:30 PM
HAMP 3201
Advisor: Wen-wen Tung

STUDENT NEWS

GRAD JOB FAIR SERIES:
ELEVATOR PITCH AND NETWORKING, RESUMES AND CVS

Tues. Sept. 27 | Wed. Sept. 28
PGSC 105AB
6:00-7:00 PM

See attached flyer for more details.

JOB OPPORTUNITY

University of Oklahoma Post-Doctoral Research Associate position open for collaborative research with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The Post-Doc will contribute to NSSL's Warn-on-Forecast (WoF) program.

Please see attached job description.

OIL COMPANY INTERVIEW DATES:
Chevron - September 13-14
ExxonMobil - October 12-14

Lisa Ryan and Robert Wenger, ExxonMobil Recruiters, will be on campus conducting interviews on October 13 and 14. If you are interested in an interview, please complete an online application and post a copy of your resume at www.exxonmobil.com/apply at least one week prior to interviewing. Copies of transcripts should also be posted or brought to the interview. Download the Working at Exxon Mobil app to learn more about ExxonMobil and career opportunities—available at iTunes or Google Play app stores.

See attached for further information regarding regular employment and internships. If you have previously applied and/or interviewed with ExxonMobil, attended a short course or have had an internship, they encourage you to update your online application as needed. You do not need to re-interview, but they will reserve some shorter time slots to talk with them as time permits.

Lisa and Robert will also conduct a pre-interview presentation at 5pm on Wednesday, October 12 in Room 2201. This presentation is open to anyone interested in learning more about ExxonMobil and the oil and gas industry.

ANNUAL ESE SYMPOSIUM

Ecological sciences and engineering interdisciplinary graduate program invites you to participate in their annual ese symposium. Registration is now open. Please mark your calendar for September, 28-29, 2016, discovery park (mann and mrgn).
Visit the ESE Symposium Website to get more details regarding the Poster Session, Art Gallery, 3 Minute Thesis, and Speakers. There are prizes for the Poster, Art Gallery, and 3MT competition.

An outline of events can be found below, but please see their detailed agenda online.

**Wednesaday, September 28th**
- KEYNOTE SPEAKER – Dr. Riley Dunlap – 7:30 PM

**Thursday, September 29th**
- DISCUSSIONS, PANELS and LECTURES – Throughout the day
- POSTER SESSION – 10:30 – 12:00
- ART GALLERY – 10:30 – 12:00
- THREE MINUTE THESIS – 2:00 – 3:30

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**MY SCHOOL, GEOGRAPHICAL AND EARTH SCIENCES**

My School, Geographical and Earth Sciences, at the University of Glasgow is currently seeking a Lecturer in Earth Sciences, in particular, they are looking to hire someone with expertise in Sedimentology or Sedimentary Basins.

Position Title: Lecturer in Earth Science
Reference Number: E20302

Please click on the link below, if you are interested in finding out more. The closing date is September 25th, 2016.

http://www.gla.ac.uk/about/jobs/vacancies/

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**10TH ANNUAL ECOLOGICAL SCIENCES AND ENGINEERING SYMPOSIUM**

September 28-29, 2016
Discovery Park

More details to come: https://www.purdue.edu/gradschool/ese/symposium/index.html

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**2016 BIG TEN GRADUATE SCHOOL EXPOSITION**

Sunday & Monday
Sept. 25-26, 2016

*Key networking opportunities
*Informational workshops
*Premier graduate school fair
*comprehensive information regarding graduate school education in:

Engineering - Science - Science-related disciplines - Mathematics - Technology

Please see attached flyer.

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**PUPS**
**PURDUE UNIVERSITY PLANETARY SCIENCE**

There is a new student club called PUPS (Purdue University Planetary Science) – to provide a sense of community for students who are interested in planetary sciences, as well as, providing encouragement and information about the future of planetary science. The goal is to increase awareness of and the interdisciplinary nature of planetary sciences.

Advisor: Briony Horgan.
E-mail: briony@purdue.edu

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**UNIVERSITY NEWS**

**IMPORTANT UPDATE FOR UNIVERSITY CARD USERS!**

**MAGNETIC STRIPE COMMERCIAL CARDS WILL BE CANCELLED FOR CARDHOLDERS WITH CHIP CARDS BEGINNING SEPTEMBER 19**

What’s happening?

Several months ago, J.P. Morgan Chase issued commercial chip enabled purchasing cards to replace magnetic stripe cards. Their records show
that not all of the chip cards have been activated, and some cardholders are still using their magnetic stripe card.

**What to expect:**

- **Beginning September 19**, cardholders, who have a magnetic stripe and a chip card, will have the magnetic stripe card cancelled.

- **After September 19**, if a cardholder attempts to use the magnetic stripe card, transactions will be declined with a reason code of “expiration date invalid”.

- Any existing transactions on the magnetic stripe card will transfer to the chip card.

**What you and cardholders need to do:**

By **September 19**, you **must** activate and begin to use their chip card as soon as possible.

Questions:

If you have any questions, please contact pcard@purdue.edu.

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**STAFF PROFESSIONAL DEVELOPMENT CALL FOR APPLICATIONS**

It is time to request nominations for the spring 2017 Staff Professional Development Fund. These applications should be for professional development opportunities that will take place during the spring months.

To apply, please completed the attached application and return it to me by **Monday, October 3**.

A committee of fellow CoS staff members will then meet to evaluate the applications and make the final funding decisions.

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**PURDUE FACULTY WRITING GROUPS TO BEGIN NEXT WEEK**

The small groups, which include faculty of all ranks and from many units, meet weekly so that members can read, edit and critique each other’s writing projects. Participants report that working in a group improves their writing quality and productivity, and connects them with colleagues across disciplines. Faculty working on papers, monographs, book chapters, grant proposals and other academic writing projects are all welcome.

Those interested in joining a Purdue Faculty Writing Group may sign up via Qualtrix at: https://purdue.qualtrics.com/SE/?SID=SV_6M2B42ygW4t6FOI. Groups are formed based on participants' weekly schedules, and the Office of the Provost handles the logistics.

For more information, contact Angie Schutz at arschutz@purdue.edu.

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**OVERLEAF PRO**

The Purdue University Graduate School is providing free Overleaf Pro accounts for all students, faculty and staff who would like to use a collaborative, online LaTeX editor for their projects, presentations and papers. Please see flyer for details.

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**HARRY S. TRUMAN FELLOWSHIP**

Sandia National Laboratories is beginning its ad campaign to attract qualified candidates for its President Harry S. Truman Fellowship in National Security Science and Engineering. The deadline for proposal submission is **November 1, 2016**. Attached is a letter that was sent from Marcey Hoover (a Purdue grad) to Dean Svensson and a flyer. The flyer contains a link to the Sandia web site which explains the Truman Fellowship in more detail. If you need additional information, please contact Yolanda Moreno (ymoreno@sandia.gov).

See attached letter/flyer.
“SKILLS PERFORMANCE” TRAINING OPPORTUNITIES AVAILABLE FOR STAFF

Purdue University – Training offers a wide selection of extension courses for both personal and professional growth. Taught by experts in their fields, the courses provide practical, hands-on experience. And, best of all, anyone can afford them. Take a look through their online catalog for courses that interest you. Then, register for the courses you want right now using the web site below!

Please click here to sign up for upcoming classes: https://www.eventreg.purdue.edu/training/Home.aspx

COSINE

COSINE (College of Science Instructional Nightly Enrichment) is a free tutoring program to help students in first-year courses in Biology, Chemistry and Math. COSINE offers evening tutoring right in your own backyard. Our goal is to help you develop problem-solving skills needed to do your homework. Please visit their summer location for assistance. COSINE at Shreve Hall URSC (you may enter from the new dedicated entrance on 3rd street) from 6 – 9 pm on Tuesdays, Wednesdays, and Thursdays of summer school. Tutors will be available beginning June 14, 2016.

*** For optimal tutoring results, bring your textbook and class notes. ***

APSAC accepting applications for professional development grants

APSAC WILL BEGIN ACCEPTING APPLICATIONS FOR ITS INDIVIDUAL PROFESSIONAL DEVELOPMENT GRANTS IN SEPT.

Examples of funded grant applications include but are not limited to professional education or certification; attendance at lectures, conferences and seminars; or tuition assistance for academic classes. The maximum award amount is $750. Applications for fall grants will be considered for activities occurring from July 1, 2016, through June 30, 2017.

The application process will be completed online, and the deadline is 11:59 p.m. ET Oct 3 for this grant period. More information and a link to the online application are available at www.purdue.edu/apsac/Grants/index.html. Questions may be directed to the Professional Development Subcommittee at APSAC-PD@purdue.edu.

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well. Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuem (fmcquem@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

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

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

http://www.eaps.purdue.edu/
Sept. 1  Joel Saylor, University of Houston  Host: Ridgway
“Integrating Stable Isotopes and Basin Analysis for a Paleogene-Neogene Paleoelevation History of Southern Peru”

Sept. 8  William McKinnon, Washington University in St. Louis  Host: Melosh
“Pluto Revealed! Results from NASA’s New Horizons Mission”

Sept. 13  Wanchen Wu, PhD Candidate  Advisor: Tung
“The Effects of Continental Aerosols on the Eyewall of a Typhoon”
**Tuesday, 4:00PM, Room 2201/HAMP**

Sept. 15  Peter Colarco, NASA Goddard Space Flight Center  Host: Harshvardhan
“Aerosol Modeling Applications in the NASA GEOS-5 Earth System Model”

Sept. 22  Oliver Boyd, U.S. Geological Survey  Host: Gilbert/Freed
“Seismic Hazard and Geodesy in the New Madrid Seismic Zone”

Sept. 27  Sarah Bischoff, PhD Candidate  Advisor: Flesch
“Breaking Down the Impact of Strength Heterogeneity on Deformation of the India-Eurasia Collision: A Numerical Modeling Approach”
**Tuesday, 4:00PM, Room 2201/HAMP**

Sept. 29  Kevin Reed, SUNY-StonyBrook  Host: Chavas
“High-resolution Global Simulations from Reduced Complexity to Future Projections”

Oct. 4  Wendell Walters, PhD Candidate  Advisor: Flesch
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct. 6  Tim Marshall, Haag Engineering  Host: Tanamachi
“El Reno Tornado and Damage Survey”

Oct. 13  TBD  Host: Caffee
“ ”

Oct. 20  Fan-Chi Lin, University of Utah  Host: Nowack
“Imaging the Yellowstone Magmatic and Hydrothermal System Using Seismic Tomography”

Oct. 25  Logan Dawson, PhD Candidate  Advisor: Baldwin
“Examination of Mesoscale Feedbacks on Convective Scale Predictability During MPEX”
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct. 27  Allison Wing, Lamont-Doherty Earth Observatory  Host: Chavas
“Clouds, Circulation, and Climate Sensitivity in Cloud Resolving Model Simulations of Self-Aggregation of Convection”
<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Advisor</th>
<th>Title</th>
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<tbody>
<tr>
<td>Nov.  1</td>
<td>Shaoqing Liu, PhD Candidate</td>
<td>Advisor: Zhuang</td>
<td></td>
<td>“Quantifying Terrestrial Ecosystem Carbon Dynamics with Mechanistically-based Biogeochemistry Models and In Situ and Remotely Sensed Data”</td>
<td>Room 2201/HAMP</td>
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<td>Nov. 3</td>
<td>Dave Finnegan, US Army Corps of Engineers</td>
<td>Host: Elliott</td>
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<td>“Automated LiDAR Scanning of Tidewater Glacier; Helheim Glacier; Southeast Greenland”</td>
<td>Room 2201/HAMP</td>
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<td>Nov. 8</td>
<td>Matthew Bowers, PhD Candidate</td>
<td>Advisor: Tung</td>
<td></td>
<td>“The Emerging States of Madden-Julian Oscillation Convection Initiation”</td>
<td>Room 2201/HAMP</td>
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<td>Nov. 10</td>
<td>Jessica Larsen, University of Alaska, Fairbanks</td>
<td>Host: Elliott</td>
<td></td>
<td>“The 2008 Eruption of Okmok Volcano, Alaska: Geological Perspectives”</td>
<td>Room 2201/HAMP</td>
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<tr>
<td>Nov. 15</td>
<td>Adam Stepanek, PhD Candidate</td>
<td>Advisor: Baldwin</td>
<td></td>
<td>“Predictions of Severe Weather Environments by the Climate Forecast System Version 2 Model Suite”</td>
<td>Room 2201/HAMP</td>
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<td>Nov. 17</td>
<td>Michael King, LASP</td>
<td>Host: Harshvardhan</td>
<td></td>
<td>“Spatial and Temporal Distribution of Tropospheric Clouds Observed by MODIS on Board the Terra and Aqua Satellites”</td>
<td>Room 2201/HAMP</td>
</tr>
<tr>
<td>Dec. 1</td>
<td>Andy Davis, University of Chicago</td>
<td>Host: Caffee</td>
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<td>“ ”</td>
<td>Room 2201/HAMP</td>
</tr>
</tbody>
</table>
Typhoons are the most high-impact severe weather system over Northwest Pacific in the boreal summer. As a typhoon moves from the pristine oceanic environment to the polluted southeast China, a large amount of aerosols are ingested into the center of the storm. Aerosols are either solid or liquid particles suspended in the atmosphere, varying widely in size and the ability to absorb surrounding water vapor, i.e., hygroscopicity. The number concentration of aerosols can be incorporated in the microphysical parameterization of numerical weather models for the nucleation of liquid and ice cloud particles. We therefore ask: Whether the nucleation from aerosols in cloud formation is essential to typhoon prediction and how the spatial variability of aerosol number concentration in the model’s initial conditions account for the uncertainty in the prediction. In this work, the aerosol effects on Typhoon Chan-Hom (2015) are studied using the Weather Research and Forecasting (WRF) model. Ensemble experiments suggest that the typhoon track is more likely influenced by hygroscopic aerosols rather than ice nucleating aerosols. In addition, the storm’s minimum center pressure is higher in more polluted scenarios in which the precipitating area also spreads wider. These differences are dynamically manifested through the displacement of eyewall convection.
Aerosols—fine particles or droplets suspended in the atmosphere—are a large source of uncertainty in the overall man-made forcing of the climate system, playing a number of roles both within the Earth system and in how humans interact with the Earth system. They have both natural and man-made sources, affect the Earth’s radiation budget, and greatly affect the properties of clouds. In this talk I review various issues related to aerosol science, including their sources and sinks, their physical and chemical composition, the various ways in which they impact the Earth system and humans more generally, and limitations on what we know about aerosols. I discuss also the various aspects of how we incorporate aerosols into our Earth system models, with a focus specifically on the Goddard Earth Observing System (GEOS-5) model, which has provided forecasting and flight planning support for a number of NASA airborne field missions and has been used to study the interactions of Saharan dust aerosols with the atmosphere and tropical cyclones, investigate the impacts of major volcanic eruptions on atmospheric circulation and chemistry, and to understand and interpret satellite observations of aerosols.
PURDUE ALUMNI & FRIENDS RECEPTION
at the Geological Society of America Meeting

MONDAY
SEPTEMBER 26, 2016
7:00 - 9:00 p.m.
Hyatt Regency Denver
Colorado Convention Center
Mineral Hall C

Join us for a special reception for alumni and friends of the Purdue University Department of Earth, Atmospheric, and Planetary Sciences. Enjoy great food and drinks, as well an opportunity to reconnect and network with your fellow Purdue alumni, faculty and students.
PURDUE RECEPTION
at the SEG Annual Meeting

Monday, October 17
6:00 PM - 8:00 PM

Hyatt Regency, Windsor Room
300 Reunion Boulevard, Dallas

Complimentary heavy hors d’oeuvres

Co-Sponsored by:
Department of Earth, Atmospheric, and Planetary Sciences (EAPS)
and
Summer of Applied Geophysical Experience (SAGE)
GRAD JOB FAIR SERIES:
ELEVATOR PITCH
AND NETWORKING
RESUMÉS
AND CVs
PGSC 105AB ● 6 PM TO 7 PM

CONVERT YOUR CV TO A RESUMÉ
TUE. SEP. 27

IMPROVE YOUR EXISTING RESUMÉ

UNDERSTAND RESUMÉ DO’s & DON’Ts

WED. SEP. 28

LEARN ABOUT PERSONAL BRANDING

Practice your 30-second commercial!

IDENTIFY YOUR NETWORKS

DEVELOP YOUR OWN PITCH

askCCO@PURDUE.EDU ● 765-494-3981
Full Time Job Description – Earth Science
Geologists / Geophysicists

Chevron Corporation is one of the world’s leading integrated energy companies with subsidiaries that conduct business across the globe. The company’s success is driven by the ingenuity and commitment of approximately 62,000 employees who operate across the energy spectrum. Chevron explores for, produces and transports crude oil and natural gas; refines, markets and distributes transportation fuels and other energy products and services; manufactures and sells petrochemical products; generates power and produces geothermal energy; and develops and commercializes the energy resources of the future, including biofuels and other renewables. Chevron is based in San Ramon, California.

Chevron is accepting online applications for the position of entry-level Geologists and Geophysicists located in:
- Bakersfield, California
- Covington, Louisiana
- Houston, Texas
- Midland, Texas
- Moon Township, Pennsylvania

Geologists and Geophysicists within Chevron are part of multi-disciplinary teams which vary in make-up but can include reservoir engineering, production engineering, simulation engineering, facility engineering and well engineering operations functions. These positions will provide technical geological or geophysical support and risk assessment for prospect generation, reserves recovery and major capital projects.

For most recent graduates, Chevron has a competency-based employee development program that includes two to three technical assignments in the first 5 years of your career supported by strong technical mentoring and comprehensive technical training. Mobility is encouraged as there are many opportunities for Chevron geologists and geophysicists to work in a variety of assignments at different locations, both domestic and international.

Responsibilities for this position may include but are not limited to:

Geologic Skills: Successful geology candidates must be familiar with development geology work processes and have the ability to integrate seismic, well, and production data to evaluate reservoirs. Reservoir Management skills such as reservoir mapping, modeling and characterization must be demonstrated. The successful candidate also needs to be adept at volumetric, reserve and risk assessments. Formation evaluation and planning for and managing reservoir surveillance programs new well, sidetrack and work over planning could also be expected job functions.

Geophysical Skills: Successful geophysical candidates must be familiar with geophysical tools (velocity, amplitudes, AVO modeling, rock physics, seismic processing, etc.) to assist earth scientists and engineers in prospect generation and reserves recovery. The candidate must keep abreast of new and emerging technologies, maintain close ties with geophysical vendors and intra-company technology networks and leverage when appropriate.

Required Qualifications:
- Students completing the last year of the requirements for their Masters or Doctorate program in geology, geophysics, geological engineering or related fields or individuals with a Masters or Doctorate degree in geology, geophysics, geological engineering or related fields with less than 2 years of directly related work experience.
- GPA – 3.0 or above
- Strong academic performance in core programs, communication, leadership, teamwork and problem-solving skills.
- Position may require driving on a routine basis.

Preferred Qualifications:
- Masters or Doctorate students with specialties in the fields of geophysics, seismic data acquisition and processing, seismic velocity modeling, reservoir properties from seismic, carbonate and clastic stratigraphy and petrography, structural geology, field mapping, depositional systems, petrophysics and well log technologies, geochemistry, and basin, geostatistical and fluid flow modeling. These skill sets are needed for our Chevron Energy Technology Company.

Relocation Options:
Relocation may be considered within Chevron parameters.

Additional Application Instructions:
Please submit your resume and unofficial transcript(s) for review.

Chevron is an Equal Opportunity / Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status

Chevron regrets that it is unable to sponsor employment visas or consider individuals on time-limited visa status for this position.

This position may involve ETC technologies that are subject to U.S. export controls and trade sanctions. These export control laws apply to individuals who are (a) not U.S. citizens, permanent resident aliens, temporary resident aliens, applicants for temporary resident status, refugees, or asylees; and who are also (b) current citizens or permanent residents of a country that is subject to comprehensive trade sanctions under U.S. export control law, http://www.treasury.gov/resource-center/sanctions/Pages/default.aspx. As such, we regret that we would be unable to provide a meaningful internship experience at ETC for you because under government regulations, ETC would not be able to allow access to such technologies absent an authorization from the U.S. government. For this reason, ETC is not considering applicants who are current citizens and/or permanent residents of countries subject to comprehensive U.S. trade sanctions.
Intern Job Description – Earth Science
Geologist / Geophysicist Intern

Chevron Corporation is one of the world's leading integrated energy companies with subsidiaries that conduct business across the globe. The company's success is driven by the ingenuity and commitment of approximately 60,000 employees who operate across the energy spectrum. Chevron explores for, produces and transports crude oil and natural gas; refines, markets and distributes transportation fuels and other energy products and services; manufactures and sells petrochemical products; generates power and produces geothermal energy; and develops and commercializes the energy resources of the future, including biofuels and other renewables. Chevron is based in San Ramon, California.

Chevron is accepting online applications for the position of Geologist and Geophysicist Interns located in:
- Bakersfield, California
- Covington, Louisiana
- Houston, Texas
- Midland, Texas
- Moon Township, Pennsylvania

Geologists and Geophysicists within Chevron are part of multi-disciplinary teams which vary in make-up but can include reservoir engineering, production engineering, simulation engineering, facility engineering and well engineering operations functions. These positions will provide technical geological or geophysical support and risk assessment for prospect generation, reserves recovery and major capital projects. Mobility is encouraged as there are many opportunities for Chevron geologists and geophysicists to work in a variety of assignments at different locations, both domestic and international.

Responsibilities for this position may include but are not limited to:

Geologic Skills: Successful geology candidates must be familiar with development geology work processes and have the ability to integrate seismic, well, and production data to evaluate reservoirs. Reservoir Management skills such as reservoir mapping, modeling and characterization must be demonstrated. The successful candidate also needs to be adept at volumetric, reserve and risk assessments. Formation evaluation and planning for and managing reservoir surveillance programs or new well, sidetrack and work over planning could also be expected job functions.

Position may require driving on a routine basis.

Geophysical Skills: Successful geophysical candidates must be familiar with geophysical tools (velocity, amplitudes, AVO modeling, rock physics, seismic processing, etc.) to assist earth scientists and engineers in prospect generation and reserves recovery. The candidate must keep abreast of new and emerging technologies, maintain close ties with geophysical vendors and intra-company technology networks and leverage when appropriate.

Required Qualifications:
- Students pursuing their Masters or Doctorate degree in geology, geophysics, geological engineering or related fields.
- Strong academic performance in core programs, communication, leadership, teamwork and problem-solving skills.
- GPA – 3.0 or above

Preferred Qualifications:
- Masters or Doctorate students with specialties in the fields of geophysics, seismic data acquisition and processing, seismic velocity modeling, reservoir properties from seismic, carbonate and clastic stratigraphy and petrography, structural geology, field mapping, depositional systems, petrophysics and well log technologies, geochemistry, and basin, geostatistical and fluid flow modeling.

Relocation Options:
Relocation may be considered within Chevron parameters.

Additional Application Instructions:
Please submit your resume and unofficial transcript(s) for review.

Chevron is an Equal Opportunity / Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or protected veteran status.

This position may involve ETC technologies that are subject to U.S. export controls and trade sanctions. These export control laws apply to individuals who are (a) not U.S. citizens, permanent resident aliens, temporary resident aliens, applicants for temporary resident status, refugees, or asylees; and who are also (b) current citizens or permanent residents of a country that is subject to comprehensive trade sanctions under U.S. export control law, http://www.treasury.gov/resource-center/sanctions/Pages/default.aspx. As such, we regret that we would be unable to provide a meaningful internship experience at ETC for you because under government regulations, ETC would not be able to allow access to such technologies absent an authorization from the U.S. government. For this reason, ETC is not considering applicants who are current citizens and/or permanent residents of countries subject to comprehensive U.S. trade sanctions.
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
The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) seeks to fill a position for a Post-Doctoral Research Associate for collaborative research with the National Oceanic and Atmospheric Administration (NOAA) Office of Oceanic and Atmospheric Research (OAR) National Severe Storms Laboratory (NSSL) in Norman, Oklahoma. The Post-Doc will contribute to NSSL’s Warn-on-Forecast (WoF) program.

Background:
Accurate short-term forecasts of extreme convective systems are crucial for mitigating the impact of hazardous weather events (e.g., tornadoes, flash floods, large hail, damaging winds). Ensemble-based data assimilation (DA) and prediction systems have the potential to provide guidance that can enable increased lead times for severe weather warnings, but efforts are needed to improve the accuracy of numerical forecasts through advancement in assimilating new data sets that are not currently operational at NWS. The incumbent in this position will focus on studies to improve accuracy (i.e., amount, location, and timing) of 0-6 h probabilistic forecasts of heavy rainfall and other hazardous severe weather.

Responsibilities:
The incumbent will help develop and refine techniques for assimilating into storm-scale NWP models boundary-layer observations from ground based, remote-sensing instruments in addition to current and future radar and satellite-based observations, using the operational Gridpoint Statistical Interpolation (GSI) package based ensemble Kalman filter (EnKF) technique. Responsibilities also include running DA and forecast experiments, and critically analyzing and interpreting the model outputs. The incumbent will publish the results in the peer-reviewed literature and present scientific results at conferences.

Required Qualifications:
1. A Ph.D. Degree (or be in the final stages of dissertation completion before applying) in Meteorology, Atmospheric Science or related area.
2. Research experience with the characteristics and dynamics of severe convective systems (particularly associated with extreme rain and flash flood events), storm-scale NWP models, ensemble DA techniques, and remote sensing observations.
3. Experience with Linux (or Unix) operating systems, programming (e.g., Fortran, C, C++), and scripting (e.g. Python, NCL) skills.
4. Excellent oral and written communication skills (including papers published in or submitted to refereed journals) and an ability to work both independently and cooperatively with others.

The beginning salary range will be $52,000-$55,000 per year (depending on qualifications) with University of Oklahoma benefits. Information on benefits may be found at http://hr.ou.edu/Employees/New-Employees-at-OU/OU-Benefits-Overview. Start date for the position will be as soon as the candidate can begin work. The position will remain open until filled.

This position is a full-time, one-year appointment and is funded by a partnership between NOAA and the University of Oklahoma through CIMMS. The appointment may be extended for one additional year subject to satisfactory performance and funding availability.
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
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Applicants are required to fill out an online application and post a copy of their resume on www.exxonmobil.com/apply one week prior to interviewing with our campus recruiter. Copies of transcripts should also be posted or brought to the interview. At this stage of the process, "unofficial" school versions of transcripts will be accepted as attachments to the online submittal. Download the Working at ExxonMobil app to learn more about ExxonMobil and career opportunities—available at iTunes or Google Play app stores.

The recruiter will conduct a pre-interview presentation on October 12. The time and location of the orientation will be designated by the Department.

Candidates for Regular Employment:

For those interested in careers in Exploration, Development and/or Production, we will be interviewing outstanding students receiving a BS, MS or a PhD in Geology or Geophysics. ExxonMobil is interested in finding outstanding candidates who have a strong fundamental background in the earth sciences, physical sciences, and mathematics. We have excellent proprietary capabilities in teaching petroleum science and technology, and therefore do not require new geoscientists to have any prior petroleum course work or experience. There is, however, a requirement for demonstrated leadership, business awareness, adaptability, teamwork, excellent communication skills in English, and a commitment to high safety and ethical standards. The company regards its global and long-term approach to hiring and career development as the foundation of its future success as a company, and as a source of great opportunity for geoscientists who want to grow their skills and capabilities for a long-term career.

For those interested in a career in Research, we will be interviewing outstanding students receiving a MS or PhD in Geology or Geophysics. Fundamental and applied research opportunities exist for applicants in three general areas:

- Hydrocarbon systems research includes, geochemistry, basin evolution, structural dynamics, petrophysics and geomechanics
- Reservoir performance prediction research includes controls on flow in clastic and carbonate reservoirs, geologic modeling and visualization
- Geophysics research includes advanced processing, acquisition, interpretation and modeling of seismic and other geophysical data

Research in all areas includes a significant component of field studies and takes advantage of state-of-the-art analytical and experimental laboratories and processing and numerical modeling capabilities.

For those interested in careers blending Geoscience and Computing, we will be interviewing graduate students receiving a MS degree in Geology or Geophysics who have an interest in computing.

Candidates for Internships:

ExxonMobil is dedicated to an ongoing recruiting program and our geoscience internship and recruiting short courses are the primary avenue we utilize to find qualified candidates. Internships (typically three months) and recruiting short courses are available year-round for students participating in BS, MS or PhD programs.

Internships are available throughout the year. Although we will give preference to those students graduating in 2017 or 2018, we will be happy to discuss career opportunities with other students as the interview schedule permits.

ELIGIBILITY INFORMATION APPLICABLE TO CANDIDATES FOR REGULAR AND INTERNSHIP EMPLOYMENT

Applicants must have the permanent right to work in the United States. Under very limited circumstances, visa sponsorship may be available for applicants with an MS with significant, relevant work experience and/or a PhD in certain research or geophysical specialty disciplines.

Applicants for internship must have the legal right to work in the U.S. during the period of the internship. If you are interested in regular U.S. employment after your internship, you must be able to meet the regular U.S. hiring criteria at the time of regular U.S. hiring.

Individuals who have authorization to work in countries where ExxonMobil has geoscience staff such as Angola, Nigeria, Europe, Malaysia, Indonesia, Russia, and the Middle Eastern countries, may be considered for employment by our affiliates in these locations and should sign up to interview for such employment. Students currently attending school in the U.S. who have authority to work in one of the above countries and are interested in these opportunities should utilize the www.exxonmobil.com/apply website.

ExxonMobil is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.