OUTREACH NEWS

Don’t forget to submit any activities you do with K-12: https://bit.ly/EAPSOut

Did you know that Outreach is working on an online science demonstration repository? If you know a science demo that educators would enjoy, let us know!

SPEAKER – MADELINE LEWIS
Lewis is from Purdue University
Thursday, January 26, from 3:30 – 4:30 p.m.
HAMP 1252

VIRTUAL CAREER PANEL HOSTED BY THE CENTRAL INDIANA CHAPTER OF AWG!

Save the date for a virtual career panel hosted by the Central Indiana Chapter of AWGI! The event will be held on Thursday, February 2 from 12 - 1pm and will feature discussions about entering a career in geosciences, navigating career advancement, and opportunities for women in the Geosciences. The panel is suitable for students and all career levels.

Our featured panelists include:
- Sam Henderson, LPG: Project Manager, EnviroForensics
- Rachel Walker, PhD, LPG: Senior Project Geologist, Mundell & Associates
- Jin Wang, PhD: Risk Services Section Chief, IDEM

Registrants will receive a Zoom link to attend the event. Contact us at cicawg@gmail.com for more information.

MRCC PAID SUMMER UNDERGRAD INTERNSHIP
Details below. Submit by Feb 6, 2023. Send questions & applications to mrcc@purdue.edu

Follow us on Social media to see now demos on Fridays.

Social sites:
- TikTok SuperHeroesofScience
- Twitter EAPS Outreach
- Facebook Superheroes of Science
- EAPS departmental outreach web page
MS AND PHD EAPS STUDENTS
BROADEN YOUR GRAD EXPERIENCE
For those MS and PhD students in EAPS that would like to broaden their graduate experiences while at Purdue, EAPS is affiliated with the Computational Interdisciplinary Graduate Programs (CIGP) at Purdue. While working toward a graduate degree in EAPS, graduate students can also have a concentration (specialization) in the area of Computational Science and Engineering (CSE). For more information, click here. A short video about the CIGP/CSE program can be found here.

Spring Application Deadline: March 1
Fall Application Deadline: October 1

STEM TEACHER RESIDENCY PROGRAM
BECOME A STEM TEACHER IN 18-MONTHS
Purdue’s Indianapolis STEM Teacher Residency program, in partnership with Indianapolis Public Schools, aims to strengthen the educational outcomes of students in one of the largest urban school districts in Indiana. We will prepare you to become a culturally competent, highly qualified teacher who will elevate student achievement in middle and high school science, technology, engineering, and mathematics (STEM). After successfully completing the program, graduates must commit to a three-year STEM-related teaching position with Indianapolis Public Schools.

GET PAID TO CONTINUE YOUR EDUCATION
• Stipend: $46,500
• Program Cost: ($16,875)
• Remaining Stipend for Living Expenses: $29,625

100% ONLINE COURSEWORK AND IN-PERSON STUDENT TEACHING
• Master of Science in Secondary STEM Education
• Graduate Certificate in K-12 Integrated STEM
• Education
• Initial Teaching Licensure

Learn more.

EAPS GRAD STUDENT RESEARCH OPPORTUNITIES
If you are interested in an EAPS grad research opportunity, click here for more information.

PUBLICATIONS

MEETINGS/EXPOS/OPPORTUNITIES OUTSIDE OF PURDUE

2023 COMMUNITY SOURCED DIRECTORY
We have launched the 2023 COMMUNITY SOURCED DIRECTORY of Research Experiences for Undergraduate - REU! This is to support students in finding powerful and well-supported Research Experiences. Furthermore - the directory includes many aspects of accessibility and identity that can help all our students. A new column this year is if a program has opportunities for non-US Citizens. You can access v04 for Summer 2023 posted here. Subsequent versions will be posted ~weekly into March. While a majority of these are NSF funded, a growing number are funded by a wide range of organizations/institutions, and have a growing range of formats.

We recommend that users review the column headers (listed below), in order to help them find programs that fit their identities and needs, and that they can reach based on their exams / university calendars. A student in a quarter program should avoid programs that start in early May, and vice versa for students in semester programs who need to be in class in late August/September.

PROGRAM CHARACTERISTICS

http://www.eaps.purdue.edu/
• ACCOMMODATION provided
• TRAVEL costs provided/reimbursed
• FOOD provided
• Overnight OFF-SITE travel required
• INTERNATIONAL - requires passport
• OUTDOOR field work
• Working on/in WATER - know how to swim
• DRIVING - license required
• COVID VACCINATION required
• OTHER

STUDENT CHARACTERISTICS
• Rising SOPHOMORES
• Rising JUNIORS
• Rising SENIORS
• 2-YEAR Coll. Students
• 4-YEAR Coll. Students WITHOUT grad program
• 4-YEAR coll. students WITH grad program
• Post Baccalaureate (with degree / already graduated)
• PRIOR Research Experience
• NO prior research experience
• TEACHERS or other professionals
• VETERANS
• MINORS (<18)
• NON US CITIZENS (opportunities available)
• OTHER

ACCESSIBILITY
• Encouraged Applicant Identities
• Have not made accessibility plan
• YES, accessible to DEAF / ASL
• MOBILITY-AID/ WHEELCHAIR
• Yes - GUIDE DOGS SERVICE ANIMALS
• Accommodate FOOD RESTRICTIONS

OTHER SUPPORT
• Stipend
• Describe additional supports provided by the program, which may include support for conferences attendance, early admission pathway to graduate program, support with research transition to senior thesis work, support for publication fees, etc.
• Describe the plan for the REU should COVID restrictions limit in-person/on-site activities.

SUMMER 2023 UNDERGRADUATE REU
Are you looking for a summer research internship studying ocean, coastal or environmental science? I invite you to check out the Maryland Sea Grant Summer REU program. We bring upper-level undergraduate students to the Chesapeake Bay to conduct individual research projects with a scientist-mentor at the University of Maryland Center for Environmental Science. We select undergrads in many disciplines, including engineering, biology, chemistry, physics, mathematics, ecology and marine and environmental science.

Our program runs for 12-weeks from May 22 to August 13, 2023. Each REU fellow will receive:

• $7,200 stipend
• Free housing at your research lab
• Round-trip travel expenses

In particular, we encourage students from colleges and universities where access to marine science and to research opportunities is limited and who are from groups traditionally underrepresented in science, technology, engineering and math. We believe bringing together students from many disciplines, backgrounds and parts of the country makes for a more interesting and educational summer experience.

We are accepting applications for the 2023 class now through February 15. We held our first in-person REU this past summer and expect to hold summer 2023 in-person as well. We recognize that the state of the pandemic may impact how the program operates. Please visit our website to find out more (www.mdsg.umd.edu/reu) or drop me a note at reu@mdsg.umd.edu.

NWS FORECAST OFFICE IN PADUCAH, KY SEEKING TO RECRUIT UP TO FOUR STUDENT VOLUNTEERS FOR THIS SUMMER

FELLOWSHIPS IN GEOPHYSICAL FLUID DYNAMICS AT WOODS HOLE OCEANOGRAPHIC INSTITUTION
June 20 to August 25, 2023

http://www.eaps.purdue.edu/
Since 1959 the GFD program has promoted an exchange of ideas among researchers in the many distinct fields that share a common interest in the nonlinear dynamics of fluid flows in oceanography, meteorology, geophysics, astrophysics, applied mathematics, engineering and physics. Each year, the program is organized around a ten-week course of study and research for a small group of competitively selected graduate-student fellows. The overall philosophy is to bring together researchers from a variety of backgrounds to provide a vigorous discussion of concepts that span different disciplines, and thereby to create an intense research experience. For the student fellows, the centerpiece of the program is a research project, pursued under the supervision of the staff. At the end of the program, each fellow presents a lecture and a written report for the GFD proceedings volume.

The Program commences with two weeks of Principal Lectures focusing on a particular theme in GFD. For 2023, the theme is "GFD on Other Worlds" and the lecturers will be Heather Knutson (Caltech), who will concentrate on recent observations from other worlds, and Geoff Vallis (University of Exeter), who will review our theoretical understanding of GFD on other worlds.

Up to ten competitive fellowships are available for graduate students. Successful applicants will receive stipends of $7,793 and an allowance for travel expenses within the United States. A small number of unpaid fellowships may also be available for strongly qualified students who can support themselves financially. The application deadline is February 1, 2023. Awards will be announced by March 31, 2023. We seek applicants from all areas of Geophysical Fluid Dynamics, and particularly encourage applications from women and members of underrepresented groups. It is expected that fellows will be in residence for the full ten weeks of the program, and that visitors will spend extended periods of at least one week participating in the program. Further information and application forms may be obtained at https://gfd.whoi.edu, or by writing to: gfd@whoi.edu

Prospective visitors should contact Tiffany Shaw at tas1@uchicago.edu, or Pascale Garaud at pgaraud@soe.ucsc.edu

WhoI is an Equal Employment Opportunity/Affirmative Action Organization. The GFD Program is funded by the National Science Foundation and the Office of Naval Research.
MASTER OF ARTS IN TEACHING EARTH SCIENCE RESIDENCY PROGRAM ACCEPTING APPLICATIONS

The Master of Arts in Teaching Earth Science Residency Program in the Richard Gilder Graduate School at the American Museum of Natural History in New York City is looking for graduates with Earth and space science backgrounds (geology, mineralogy, paleontology, oceanography, astronomy, environmental geology, and more) who want to make a difference in the world of STEM education. This teaching fellowship combines coursework, mentoring, and real-world experience to prepare Earth and space science graduates for rewarding careers as culturally responsive middle and high school teachers. All degree candidates will receive free tuition, books, and a $30,000 living stipend. In return, candidates commit to teaching in a high-needs school for three years.

With a sole focus on preparing new Earth science teachers, the program is a full-time, 15-month Master’s degree program that takes place at the Museum and in urban partner schools. We seek a student body with a passion for social justice and diverse life and career experiences.

We are currently accepting applicants for the class that will begin in June 2023. Prospective students are encouraged to attend an Information Session or to contact us for more information. You can also visit the program website to learn more and/or join our mailing list (make sure to click MAT for Earth Science Grads). For questions, you can contact the program office directly mailto:atmat@amnh.org or (212) 313-7464.

VENUS SURFACE AND ATMOSPHERE CONFERENCE
January 30 – February 1, 2023
Change of Conference Location- Houston, TX/Virtual
Meeting info

MERCURY EXPLORATION ASSESSMENT GROUP (MEXAG) ANNUAL MEETING
February 1-3, 2023
Virtual
Meeting info

EXTRATERRESTRIAL MATERIALS ANALYSIS GROUP (EXMAG)
April 25-27, 2023
Virtual
Meeting info

54TH LUNAR AND PLANETARY SCIENCE CONFERENCE
March 13–17, 2023
The Woodlands, TX/Virtual
Meeting info

OUTER PLANETS ASSESSMENT GROUP (OPAG)
May 2-3, 2023
Johns Hopkins University Applied Physics Laboratory
Laurel, MD/Virtual
Meeting info

4TH INTERNATIONAL PLANETARY CAVES CONFERENCE
May 4-7, 2023
Haria Municipality, Lanzarote, Spain
Meeting info

BRINES ACROSS THE SOLAR SYSTEM: ANCIENT AND FUTURE BRINES CONFERENCE
May 15-18, 2023
Reno, NV
Meeting info

ASTEROIDS, COMETS, & METEORS CONFERENCE
June 18-23, 2023
Flagstaff, AZ
Meeting info

URANUS FLAGSHIP: INVESTIGATIONS AND INSTRUMENTS FOR CROSS-DISCIPLINE SCIENCE
July 25-27, 2023
Pasadena, CA
Meeting info

2nd INTERNATIONAL ORBITAL DEBRIS CONFERENCE
Dec. 4-7, 2023
Houston, TX / virtual
Meeting info

POSITIONS AVAILABLE - CAREER OPPORTUNITIES

WATCH DESK OFFICER
Requisition ID:320982
Location: Indianapolis, IN, US, 46204
Indiana Department of Homeland Security:
Salary: This position starts at a minimum rate of $22.00 per hour and may be commensurate with education and experience.
About the Job: The purpose of the Watch Desk Officer is to collect, evaluate, analyze, and
disseminate information to support local, state, and federal public safety agencies in mitigating, preparing for, preventing, responding to, and recovering from natural or man-made incidents and disasters. The State of Indiana is an Equal Opportunity Employer. More info.

WEATHER, OCEANOGRAPHY, AND CLIMATE CHANGE INSTRUCTOR AT PORTLAND COMMUNITY COLLEGE

Portland Community College is seeking a full-time general science faculty member to provide culturally responsive instruction in support of PCC’s Mission and Values. The successful candidate will be a dynamic instructor who can build an environment that inspires and communicates a love of physical science to a diverse group of students. There will be opportunities to provide input and collaborative leadership in the areas of curriculum and program development, mentoring, virtual learning, college-wide initiatives, community outreach and educational research. The ideal candidate will have a background in meteorology, oceanography, and climate studies, as well as experience with aviation weather forecasting. The new instructor in this position will teach classes at the Rock Creek campus, and fully-online, to support general education as well as PCC’s Aviation Science program. The earth sciences departments are currently in a state of renewal, and this is a rare opportunity to help shape the future growth of the program for the 21st century. More info.

MILLERSVILLE UNIVERSITY – TENURE TRACK ASSISTANT PROFESSOR OF METEOROLOGY (BEGINNING AUGUST 2023)

Millersville University - Tenure Track Assistant Professor of Meteorology (Beginning August 2023)
The Department of Earth Sciences in the College of Science and Technology welcomes applications for a Full-Time Tenure-Track Assistant Professor position beginning August 2023. Responsibilities include teaching, advising students, scholarly or creative work and department and university service. Actual assignments will depend upon department needs. The successful candidate will have a strong interest in teaching undergraduates (12 contact hours of instruction each semester), involvement of undergraduates in their research program, mentoring and advisement of undergraduates, and participation in recruitment activities. The department, college, and university cultivate a safe, open and inclusive environment and are committed to hiring a diverse candidate. More info.

POST-DOC POSITION OPEN AT MIT IN THE FIELD OF ATMOSPHERIC DYNAMICS

The research tackles questions on the interface between weather and climate. Topics include but are not limited to:
- Midlatitude storm tracks, Rossby Wave Breaking events, atmospheric circulation regimes, and their projected changes.
- Temperature variability, climate and weather extremes, dynamics of heat waves.
- Subseasonal-to-seasonal predictability

For more information about the position, please contact Talia Tamarin-Brodsky at taliatamarin@gmail.com. Applications from women and under-represented minorities are strongly encouraged. Please include a detailed CV and a list of references in your application.

Job Requirements: Ph.D. in atmospheric sciences or a related field by the date of hire. Strong background in atmospheric dynamics/geophysical fluid dynamics is an advantage. Demonstrated ability to carry out creative, innovative, independent research, and to publish in peer-reviewed literature, and effective written and verbal communication skills. More info about positions at MIT.

MULTIPLE POSITIONS OPEN WITH ENVIROFORENSICS

EnviroForensics is hiring! We’re looking for motivated and collaborative individuals to join us as a Project Manager (Indianapolis or Louisville), Staff Professional (Indianapolis), Field Professional (Indianapolis), and Field Technician (Indianapolis). If you’re interested in joining our team, visit our Careers and apply today!

ASSISTANT PROFESSOR OF ENVIRONMENTAL & GEOSPATIAL SCIENCES - WESTERN KENTUCKY UNIVERSITY

The Department of Earth, Environmental, & Atmospheric Sciences (EEAS) at Western Kentucky University is seeking highly qualified applicants for a 9-month tenure-track Assistant Professor of Environmental & Geospatial Sciences position beginning August 2023. Learn more here.

SENIOR GEOSCIENTIST AT FREEPORT-MCMORAN

Freeport-McMoRan is a leading international mining company with headquarters in Phoenix, Arizona. We operate large, long-lived, geographically diverse assets with significant proven and probable

http://www.eaps.purdue.edu/
reserves of copper, gold, and molybdenum. The company has a dynamic portfolio of operating, expansion and growth projects in the copper industry. Freeport-McMoRan is one of the world’s largest publicly traded copper producers, the world’s largest producer of molybdenum and a significant gold producer. We have a long and successful history of conducting our business in a safe, highly efficient and socially-responsible manner. Please note: This position has the possibility to work remotely up to 100% of the time. Apply here.

ASSISTANT OR ASSOCIATE PROFESSOR
ATMOSPHERIC AND PLANETARY SCIENCES – HAMPTON UNIVERSITY

The Hampton University (HU) Department of Atmospheric and Planetary Sciences (APS) invites nominations and applications for two tenure-track faculty positions at the rank of Assistant or Associate Professor beginning January 2023. Founded in 1868, Hampton University is a leading historically black university (HBCU) located on the Virginia Peninsula in the City of Hampton. It is a privately endowed, co-educational, nonsectarian institution. HU established the Center for Atmospheric Science (CAS) in 1996, which led to creation of the Department of Atmospheric and Planetary Sciences in 2007. APS offers M.S. and Ph.D. degrees in the fields of Atmospheric Science and Planetary Science. This program has established a reputation of excellence in education, outreach and research, with particular emphasis on satellite applications for atmospheric studies. Learn more here.

INDIANA EHS ADVISOR JOB POSTING

U.S. Compliance: Searching for high performing EHS professionals who want to make a difference. Join our fast-growing EHS compliance firm to help us CARE for people, PROTECT the environment and GROW our clients’ business. Link to posting.

POSTDOCTORAL APPOINTEE AT ARGONNE - WIND ENERGY AND CLIMATE SCIENCES

We have an exciting opportunity for a Postdoctoral Researcher position focusing on Wind Energy and Climate Science at the Argonne National Laboratory. This appointment will be at the Environmental Science Division embedded within our Computer, Environment, and Life Sciences Directorate. The project aims to improve our understanding of factors modulating winds in an offshore wind farm environment, with an ultimate goal of improving their representation in models used for forecasting wind energy. The three-year multi-institutional project titled Observationally driven Resource Assessment with CouplEd models (ORACLE) is funded by Department of Energy Wind Energy Technology Office. Learn more here.

MUTEREOLOGIST POSITIONS AVAILABLE
TEGNA

Multiple meteorology positions are open with TEGNA.

BRYAN ENVIRONMENTAL CONSULTANTS
Homewood, IL
SEEKING PART-TIME TO FULL-TIME POSITIONS
• Bachelor’s or Master’s degree in environmental engineering, civil engineering, geotechnical engineering, geology
• Knowledge of State and Federal environmental regulations a plus
• Experience with Phase I and II Environmental Site assessments a plus
• Strong writing skills
• Proficient in all Microsoft Office applications
• Must have cell phone and computer (laptop)
• Valid Driver’s License

POST-DOC OPPORTUNITY - AIR FORCE SCIENCE & TECHNOLOGY FELLOWSHIPS

The National Academies of Sciences, Engineering, and Medicine administers postdoctoral and senior research awards at the U.S. Air Force Research Laboratory (AFRL), the U.S. Air Force Institute of Technology (AFIT), and the U.S. Air Force Academy (USAFA) under the Air Force Science & Technology Fellowship Program (AF STFP). Seeking highly qualified candidates who are U.S. citizens and hold, or anticipate earning, a doctorate in a variety of fields of science or engineering.

Application deadline dates (four annual review cycles): February 1, May 1, August 1, November 1

Awardees have the opportunity to:
• Conduct independent research in an area compatible with the interests of the Air Force laboratories
• Devote full-time effort to research and publication
• Access the excellent and often unique Air Force research facilities
• Collaborate with leading scientists and engineers

http://www.eaps.purdue.edu/
• Awardee benefits:
  • Base stipend starting at $76,542; may be higher based on experience
  • Health insurance (including dental/ vision), relocation benefits, and a professional travel allowance

Applicants should contact prospective AFRL, AFIT and USAFA Research Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities. For detailed program information, to search for AFRL, AFIT, and USAFA Research Opportunities, and to contact prospective Research Adviser(s), visit www.nas.edu/afstfp.

PURDUE ENVISION CENTER (UNDER ITAP)
RECRUITING EAPS STUDENTS
At the Envision Center looking to recruit EAPS students with background and interest in weather visualization. Details on the job opening can be found here.

POSITIONS AVAILABLE IN METEOROLOGY AND ATMOSPHERIC SCIENCE
View current career listings

AGI GEOSCIENCE JOB CENTER
Check listings here.

GRADIENT CORP
MULTIPLE OPPORTUNITIES
Please feel free to contact Qianlai Zhang if you are interested in applying and/or have any questions about the company and the opportunities.

NATIONAL WEATHER SERVICE
POSITIONS AVAILABLE
Check here for available positions with the National Weather Service.

NEWSLETTER INFO
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. Material for inclusion in the newsletter should be submitted to Cheryl Pierce by 5:00pm on Thursday of each week for inclusion in the Monday issue.

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