REMINDERS:
- LAST DAY FOR UNDERGRADUATES TO FILE SECOND-GRADE ONLY OPTION: 12/9
- CLOSE OF CLASSES:12/9
- FINALS WEEK: 12/12 - 12/16
- COMMENCEMENT: 12/15 - 12/18
- WINTER SESSION CLASSES: 12/19/22 - 1/13/2023
- SPRING SEMESTER CLASSES RESUME: 1/17/2023

Publications/Research

Congratulations to MS candidate Sebastien Mure-Ravaud, who is second author of the paper “Silicification of trilobites and biofilm from the Cambrian Weeks Formation, Utah: Evidence for microbial mediation of silicification,” just published online in Geology (https://doi.org/10.1130/G50496.1)
Congratulations to EES Emeritus Professors Holmes Semken, Dick Baker and Art Bettis, and Paleontology Repository Collections Manager Tiffany Adrain on the publication of “Paleobiology of Jefferson’s Ground Sloth (Megalonyx jeffersonii) derived from three contemporaneous, ontogenetically distinct individuals recovered from Southwestern Iowa, U.S.A.” in the latest issue of Journal of Vertebrate Paleontology (v. 42, issue 1).

This multi-authored paper is the culmination of a huge collaborative project with the University of Iowa’s Museum of Natural History (UIMNH), Department of Earth and Environmental Sciences, and Office of the State Archaeologist, based on a unique Megalonyx site discovered in 2001. The study focuses on Iowa's environment 106,000 years ago, description of the most complete skeletal remains of the species, and the first direct evidence of a Megalonyx family group with extended supervised juvenile care. The excavations and research involved extensive collaborations between many interdepartmental UI staff, faculty, students (of whom five are authors), and volunteers coordinated by UIMNH which played a vital role in organizing and managing the recovery, lab preparation, preservation, curation, and research on the sloth. The research team says any future work on Ice Age Ground Sloths will reference this University of Iowa study.

The sloth specimens, donated by landowners B. and S. Athen, and D. and L. Tiemann, who were so encouraging of student involvement, are housed in the UI Paleontology Repository and can be viewed online at the Iowa Digital Library. Excavation diaries and photos are available on the UIMNH website: Tarkio Valley Sloth Project. The UIMNH mascot "Rusty the Giant Ground Sloth," a life-size model of M. jeffersonii, is on display in Macbride Hall - Rusty merchandise is available!

(pictured) Former EES vertebrate paleontology graduate student Georgia Knauss poses with Rusty in MacBride Hall
The Center for Oldest Ice Exploration (COLDX) is excited to announce that applications are OPEN for the Summer 2023 COLDX Research Experience for Undergraduates (REU) Program!

Join your COLDX experience, you will work with ice core scientists and researchers to answer questions that will help in our mission to find the oldest ice in Antarctica and make important contributions to our understanding of Earth’s climate history.

Applications are open to current undergraduate students. Due to NSF funding, participants must be U.S. citizens or permanent residents. Note: this REU does not include travel to Antarctica.

Student participants will receive a $6,000 stipend over the course of 10 weeks (from June - August, 2023). Students will be placed in a COLDX laboratory, with full funding for travel to and from the host institution. Students will also be funded to present their research at the COLDX annual meeting in Corvallis, Oregon September 6 - 7, 2023.

Find out more about the COLDX REU program and apply at coldx.org/reu or apply here: https://oregonstate.qualtrics.com/jfe/form/SV_daK395aMKNqQLcm?jfe=fe=new

Applications are due February 1, 2023 at 11:59 pm Eastern Time.

Graduate Assistantship, Paleomagnetism and Marine Geoscience, University of Wisconsin, Milwaukee (UWM)
University of Wisconsin, Milwaukee - Milwaukee, Wisconsin

The UWM Paleomagnetism Laboratory seeks applicants for a fully-funded PhD (preferably) or MS position beginning Fall 2023. The student will participate in a collaborative project examining eruptive timing and volcanic accretion on the Southern East Pacific Rise. The student will be responsible for palaeomagnetic analyses and would have the opportunity to participate in the ongoing expedition. Funding as a research assistant (RA) or teaching assistant (TA) is $21,420 for the 9-month academic year plus up to $5000 in summer support. Two additional semesters of PhD support are funded as a teaching assistant (TA) or graduate fellow. The successful applicant also receives full tuition remission and benefits such as health care. UWM and the Department of GeoSciences [https://uw.milwaukee.edu/geosciences/graduate/] are committed to equity, diversity, and equal opportunity. We strongly encourage applications from underrepresented minority students, persons with disabilities, members of the LGBTQ+ community, nontraditional students, and other underrepresented and disadvantaged groups in geosciences. Priority deadline for Fall 2023 admission is January 15, 2023 (or December 15, 2022 to receive consideration for UWM Graduate Fellowships). For more information: Dr. Julie Bowles (bowlesj@uwm.edu).

PROFESSIONAL / POST-GRAD

Biogeochemistry Laboratory Analyst (2 positions)
Cooperative Institute for Great Lakes Research - School for Environment and Sustainability - University of Michigan

The Cooperative Institute for Great Lakes Research (CIGLR) is seeking two (2) candidates to join our research team to work on harmful algal blooms, hypoxia, and invasive species in the Great Lakes. You will be responsible for performing laboratory analyses related to aquatic biogeochemistry in the Great Lakes and their watersheds.

Required Qualifications

• Bachelor’s degree in environmental science or related field
• Upper-level coursework in analytical chemistry or related to surface water chemistry
• Professional or academic experience working in a laboratory with at least one year of experience performing analytical chemistry related to water quality or biogeochemistry
• Experience working independently on problem-solving and balancing demands of multiple projects
• Familiarity with data management and analysis using products such as Excel, R, MATLAB, Python, or similar platforms

Desired Qualifications

• Two (2) or more years of professional or graduate experience working in a laboratory
• Demonstrated experience developing, adapting, or troubleshooting analytical methods for biogeochemistry or water quality

For more information and to apply: https://careers.umich.edu/job_detail/227569/biogeochemistry-laboratory-analyst

The application deadline is 1/3/23.

Assistant Professor, Department of Geology & Geophysics (Economic Geology), University of Wyoming
University of Wyoming - Laramie, Wyoming

The Department of Geology & Geophysics at the University of Wyoming welcomes applications for a tenure-track Assistant Professor of Economic Geology. The successful candidate will develop a nationally competitive, externally funded research program in the field of Economic Geology, broadly defined, and will teach core courses in Geology & Geophysics Department degree programs as well as in their area of specialization related to Economic Geology at the undergraduate and graduate level.

A minimum of a PhD degree in Geology or a closely related field is required. Preference will be given to applicants with:
• Demonstrated ability and/or potential to develop a nationally competitive, externally funded research program
• Potential to advise graduate students
• Understanding of current and emerging energy minerals issues including critical minerals characterization and processing
• Past experience working or teaching in an undergraduate course related to Economic Geology (possibly including: mineralogy or petrology or other coursework with a geochemical or structural focus or modules of our summer field camp and elective courses in their area of expertise)
• Desire and potential to develop partnerships with industry and/or state entities

The UWO Geology Department seeks applicants for a field-oriented groundwater hydrologist with expertise in environmental geology/geophysics to be part of our high-quality undergraduate-only program. Review of applications will begin January 6, 2023.

The University of Wisconsin Oshkosh seeks a field-oriented groundwater hydrologist with expertise in groundwater hydrogeology with approaches that foster undergraduate student learning. The candidate will be expected to develop and maintain an active research program producing peer-reviewed scientific publications, be an outstanding teacher, and perform service. Teaching responsibilities include environmental geology, physical and chemical groundwater hydrogeology with approaches that foster undergraduate student learning.

The University of Wisconsin Oshkosh is a part of the University of Wisconsin system – one of the largest systems of public higher education in the U.S.

Complete job description and information here.

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• Experience working independently on problem-solving and balancing demands of multiple projects
• Familiarity with data management and analysis using products such as Excel, R, MATLAB, Python, or similar platforms

The application deadline is 1/3/23.
You will be prompted to submit online the names and email addresses of three references who will be contacted by the system with a statement of research interests (2 page maximum). Demonstrating a commitment to diversity and inclusion (2 pages maximum), iv) statement of teaching interests (2 page maximum), and v) a statement of future research interests (2 page maximum).

Applications received after the review date will be considered if needed.

For full consideration, submit application materials online by the review date, December 15, 2022:

William & Mary - Williamsburg, Virginia

The starting date for this position is August 14, 2023. Questions concerning the position or the Department can be addressed to the Department Chair, Clint Rowe by telephone (402-472-2663) or email (crowe1@unl.edu).

Review of applications will begin January 9, 2023; however, the search will continue until the position is filled. To apply, go to https://employment.unl.edu/Postings/61791 and complete the Faculty/Administrative form. Applicants must attach 1) a cover letter; 2) a curriculum vitae; 3) a statement of teaching philosophy; 4) a statement of research achievements and goals, which includes a description of the applicant's future research foci and external funding potential for these foci; 5) a statement describing the applicant's experience and vision for enhancing diversity, inclusion, and equity in the department, institution, and profession; and 6) the names of at least three references. Combine the statements (items 3, 4, and 5) into a single document for upload.

The University of Nebraska-Lincoln (UNL) seeks to achieve a working and learning environment that is open to all people. Diversity is the hallmark of great institutions of learning and has long been one of the hallmarks of our American society. As an EOE/AA employer, the University of Nebraska considers qualified applicants for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See https://www.unl.edu/equity/notice-nondiscrimination.

Physical Geomorphologist Tenure-Track Position, Geology Department, William & Mary

The Geology Department at William & Mary, a public university of the Commonwealth of Virginia, seeks applications for a tenure track position at the Assistant Professor level in physical geomorphology. Preference will be given to those who apply field and/or remote sensing techniques to solve geomorphic problems. Successful applicants must possess the skills to teach Earth Surface Processes and will contribute courses in geology at the introductory through advanced undergraduate level. The applicant is expected to establish and maintain a vibrant externally funded research program that incorporates mentorship of undergraduate research students. Teaching expectation is 2 courses per semester.

The Geology Department has eight full-time faculty and graduates ~30 undergraduate majors per year, all of whom complete a senior research project. The Geology Department works closely with the College's interdisciplinary Environmental & Sustainability Program and the Center for Geospatial Analyses.

For full consideration, submit application materials online by the review date, December 15, 2022: https://jobs.wm.edu/postings/50501

Applications received after the review date will be considered if needed.

The application requires: i) curriculum vitae, ii) cover letter, iii) statement describing previous professional experience or future plans (or both) demonstrating a commitment to diversity and inclusion (2 pages maximum), iv) statement of teaching interests (2 page maximum), and v) statement of research interests (2 page maximum).

You will be prompted to submit online the names and email addresses of three references who will be contacted by the system with instructions for how to submit a letter of reference. Information on the degree programs in the Department of Geology can be found at http://www.wm.edu/as/geom
Applications will only be notified if they have been selected for an interview. Please Note: Due to the volume of applications, we are not able to respond to email inquiries regarding the status of an application. Applications cannot be accepted via email or snail mail. Applications must be received no later than Tuesday January 2nd 2023. Interested parties should apply online:

**INTERNSHIP, SCHOLARSHIP, FELLOWSHIP, & GRANT OPPORTUNITIES**

**INTERNSHIP**

**GSA Scientists in Parks Summer Internship** season is approaching! Applications open in early December 2022 and close on January 22, 2023 at 11:59 EDT. Summer season projects start between May and September 2023. Start preparing your application materials now, and seek out your mentor or faculty advisor for more information and assistance. Join the upcoming webinar for applicants on 7 December to learn more. Summer 2023 SIP Intern positions will post soon in early December.

**The Nature Conservancy in Iowa is recruiting for our Anna Beal Summer Interns**

This internship is open to undergrad students attending an Iowa college/university and offers a $5,750 scholarship to conduct hands-on conservation work across Iowa. Internship dates are May 22 – August 4, 2023. The internship posting is open until crew spots are filled.

**Summer 2023 Science Undergraduate Laboratory Internships (SULI)**

Department of Energy (DOE) / Office of Science’s Workforce Development for Teachers and Scientists - Various locations

Are you an undergraduate student or recent graduate in science, technology, engineering, or math looking to develop your research skills? Then the SULI program is for you. Gain hands-on research experience on an exciting project under the guidance of a mentor and build your professional network at a national lab. Present your research to scientists and peers, join in social activities, and engage in a variety of professional development activities to enhance your career skills.

The SULI program is sponsored and managed by the Department of Energy (DOE) / Office of Science’s Workforce Development for Teachers and Scientists (WDTs) program in collaboration with 17 DOE national laboratories and facilities across the U.S.

Benefits
• $650/week stipend
• Housing accommodations or housing allowance
• Round-Trip travel reimbursement

Learn how to apply at https://science.osti.gov/wdts/suli/How-To-Apply.

Applications are due January 10, 2023 at 5:00 PM ET.

For full eligibility requirements, please visit https://science.osti.gov/wdts/suli/eligibility

**AMERICAN MUSEUM OF NATURAL HISTORY (An Equal Opportunity Employer)**

Job Title: Archive Intern, 1 position (Department of Vertebrate Paleontology)

Responsibilities and Duties:
The intern will participate in an IMLS-funded project to catalog the Vertebrate Paleontology Archive in order to broaden access to the collection. The Intern will work in a team of two, under the supervision of the Project Archivist and AMNH collections and Research Library staff, on processing tasks to meet the goals of the work plans set for various areas of the project. These tasks will include cataloging unprocessed materials; assisting with the creation of finding aids; working through materials to flag them for future conservation, re-housing and digitization in future grant projects; and contributing to social media outreach.

The internship period runs for 24 months; this position requires a minimum commitment of 15 consecutive weeks, working one to two days a week. Work on this internship can only be performed onsite at the AMNH. Preference may be given to candidates who can commit to more than one consecutive semester. A stipend will be provided as support over the internship period.

Required Qualifications:
Applicants should be enrolled in, or a recent graduate of, a Library and Archives graduate program, or enrolled in an undergraduate or graduate Paleontology program with experience working in an archive collection. Proficiency in the use of Mac- and PC-based software, good organizational skills, excellent interpersonal skills, and the ability to work independently are crucial. Awareness and interest in current developments of data standards, trends and emerging technologies in the field of archives and records management. Comfort taking the initiative in new settings and knowing when to ask adept questions. Experience working in museum collections a plus.

Interested parties should apply online:
https://careers.amnh.org/postings/3235

Applications must be received no later than Tuesday January 2nd 2023.

Applications cannot be accepted via email or snail mail

**Please Note: Due to the volume of applications, we are not able to respond to email inquires regarding the status of an application; applicants will only be notified if they have been selected for an interview.**
Wilkes University is offering a five-week, intensive, project-focused, international field camp located on the island of Newfoundland, Canada open to upper-level geoscience students from any college or university. Newfoundland offers a unique cross-section of major crustal segments that comprise the Appalachian mountain belt. Field camp curriculum is designed to meet the requirements of most undergraduate Geology B.S. programs and many state professional licensure programs.

For more information, or to apply, visit https://www.wilkes.edu/fieldcamp.

The Wilkes University field camp only accepts a limited number of students so that each student has more access to resources and faculty. As such, spots are very limited and competitive. Upon receipt of your complete application and requisite documents, we will make a decision on your application within 7 days.

If your application is approved, you will have 30 days from the date of the acceptance email to submit a non-refundable $750 deposit to secure your spot. If the deposit is not received, your spot will be forfeited to the next student. The remainder of the balance is due by May 15, 2023.

The application window will close on April 15, 2023.

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The Iowa Natural Heritage Foundation (INHF) is looking for college students seeking a paid internship that offers outstanding experience in land conservation — plus the knowledge that they’re helping to restore and protect Iowa's natural resources.

INHF will be hiring 17 summer interns to fill multiple land stewardship crews working in different regions of Iowa.

INHF Land stewardship internship locations:
- Central Iowa Crew - Des Moines, IA
- Blufflands Crew - Decorah, IA
- Loess Hills Crew - Council Bluffs, IA
- Eastern Iowa Crew - Iowa City, IA

We're looking for interns in environmental fields of study (Biological Sciences, Animal Ecology, Landscape Architecture, etc.) who can work for a period of 12 weeks during the summer of 2023. Land Stewardship interns gain hands-on experience with natural land management and restoration within prairies, wetlands, savannas, and other natural areas throughout Iowa. Interns will also learn about Iowa's ecology, work with a team, and enjoy the outdoors.

For more information about the Iowa Natural Heritage Foundation, internship opportunities, and how to apply, visit https://www.inhf.org/about-us/internships/

Deadline to apply: January 16th, 2023

Internships start on May 22, 2023 and end on August 10, 2023. Interns will work a total of 11 weeks within that period. The work week will consist of 10-hour days, Monday through Thursday. Pay is $13/hour.

Iowa Natural Heritage Foundation provides equal employment opportunities to all employees and applicants for employment without regard to race, color, ancestry, national origin, gender, sexual orientation, marital status, religion, age, disability, gender identity, results of genetic testing or service in the military.

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WANT TO SHARE SOMETHING IN THE WEEKLY EES NEWSLETTER?

The EES Department newsletter is published every Tuesday during the academic year, apart from semester breaks.

If you would like to add an event, club meeting, or other item of interest, please submit an email to geology@uiowa.edu, with the subject heading “Newsletter item,” on Fridays by noon, and your submission will be added to the following Tuesday’s newsletter.

Thank You & Have a Great Week!