Earth Science
University of Colorado Boulder



Geobiology Field Class (4755/5755) standing right on the edge of the Cretaceous-Paleogene boundary in Raton, NM—where a thin grey clay layer holds the extraterrestrial iridium spike that marked the end of the dinosaurs 66 million years ago.



We're officially entering the home stretch of the fall semester! As we step into November, we are kicking off **Peak Application Season (November through the first week of February)**—the prime time for summer research opportunities, internships, and major scholarships.

Each weekly newsletter from now through February will be packed with brand-new opportunities, scholarship alerts, course spotlights, and networking events. Take a look below for this week's features, including $1,000 AIPG scholarship details, Spring registration prep, and upcoming career workshops!

Important Announcements

Halloween Monster Map Scavenger Hunt



Oct. 30th, 9 AM–5 PM

Celebrate Halloween with the annual Monster Map Scavenger Hunt! Search the library for maps featuring UFOs, mythical creatures, zombies, and more while collecting candy along the way. Lower level of the Earth Sciences & Map Library.

Spring 2027 Registration!

Registration for Spring 2027 is about to be underway, make sure you're ready to enroll in your next round of classes! Check your Buff Portal for your assigned enrollment date and any registration holds. We strongly encourage you to reach out to your academic advisor to review your degree progress and course plans ahead of time. Appointments fill up quickly, so schedule a meeting soon to stay on track for a smooth registration process.

Department Social Events

Coffee Social



☕ **Free Coffee & Casual Advising Nov 2nd 10:30 - 11:30 AM.**

Questions about course fit? Or what types of questions can the Earth Science Faculty mentors help with? Want to talk to faculty and researchers about how they got into their field?

Join us for coffee and advice from the ERTH faculty mentors on **Benson 1st Floor (North Entrance)**



Geology Club

The Geology Club's November calendar is here. Office Hours run Mondays and Thursdays from 4 to 5:30 PM in Besc 265 (except Thanksgiving week). They work like a study hall: a place to get work done with other people, catch up with someone you don't see often, or meet new club members.

3rd Annual Earth Science Symposium

Join us for the 3rd Annual Earth Science Symposium on **Saturday, November 7, from 9:00 a.m. to 1:30 p.m.** in the Benson Earth Sciences Building. The event will

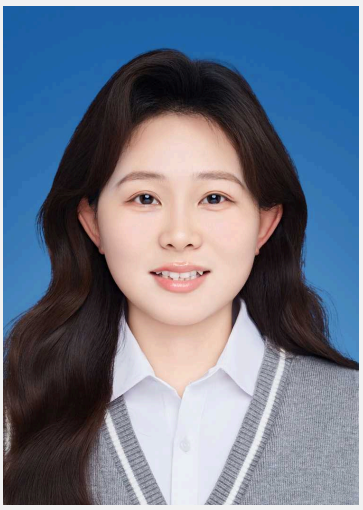
feature poster and networking sessions for students and early career researchers, along with a networking panel, coffee, and lunch.

Register here!

Interested in volunteering with setup, cleanup, or event logistics? Contact Suzanne Anderson at **Suzanne.anderson@colorado.edu** or Kathryn Materna at **Kathryn.Materna@colorado.edu**.



Colloquium & Happenings



Earth Sciences Colloquium:
Dr. Qian Tian

Topic: From Diatoms to Diagenesis: The Formation and Transformation of Biogenic Silica

Join us on **11/4/26** in room **380** for our weekly colloquium featuring Dr. Qian Tian, INSTAAR Visiting Scientist and researcher at the Institute of Subtropical Agriculture, Chinese Academy of Sciences!

Dr. Tian will discuss how biological processes influence the formation of biogenic silica and how its chemical properties evolve through dissolution, sediment burial, and mineral transformation.

As always, snacks and drinks will be available starting at 12:00 PM, and the talk will be held from **12:20–1:20 PM**.

Spring Field Courses

Looking ahead to Spring 2027, Maymester, and Summer 2027, there are several Earth Science courses and field opportunities for undergraduate students to explore! Whether you're interested in hands-on fieldwork, research opportunities, remote sensing, or expanding your understanding of Earth's processes, take a look at these upcoming offerings.

ERTH 2700 (Intro to Field): Offering Reminder

Please note: ERTH 2700 will **NOT** be offered in Spring 2027. **Plan ahead** if you need it as a prerequisite. It will be offered in Maymester 2027, Fall 2027, and Spring 2028.



ERTH 4717
Field Seminar in Geology and Tectonics (2cr)

Spring Break trip to the Southwest. See the geological evolution of the Southwest unfold before you. The first step in any geological study is to examine the existing literature, so library skills are enhanced as you connect that literature to the rocks in the field. Upper division field course. Prerequisites: ERTH 2001 or 2700, and any of ERTH 3120, 3320, 3430, or 4241.



ERTH 4719
Field Analysis and Tectonics of Crystalline Rocks (2cr)

Explore how water, ice, wind, and life reshape Earth's surface—from slow erosion to sudden floods and landslides. Study diverse environments like hillslopes, rivers, deserts, glaciers, and coastlines. Learn how geomorphic principles help us understand landforms and manage natural hazards. Includes lab work and field trips to collect and analyze data. Same as GEOG 4241.

ERTH 4747
Juneau Icefield Research Program (6cr)

Field course in cryosphere, climate, and polar science. This eight-week summer field school in Earth and climate sciences teaches the science and field skills to conduct expeditionary polar research. Upper division field course. Offered Summer 2027, June 11th to August 11th. Instructor: Prof. Markle.

No prerequisites, however students must apply directly to the program before enrolling: **Apply Now!** **Learn More!**



Education Abroad Field Classes (Maymester and Summer)

Two education abroad field classes are coming up for Maymester and Summer. One is going to **the Galapagos Islands** and the other to **the French Alps!** Keep them on your radar; details to come.





New Interdisciplinary Climate Science Minor

The new **Interdisciplinary Climate Science minor,** launched in Fall 2026, offers students an opportunity to explore climate science across disciplines. Students interested in learning more about the minor can visit the **program website** or contact **Robert Anderson** at robert.s.anderson@colorado.edu or **Brad Markle** at brad.markle@colorado.edu for more information.

Campus Opportunities



Circularity & Waste Management: Fall Speaker Event

Join sustainability practitioners on **Monday, November 2, from 5:00–7:00 PM** for a discussion on circularity and waste management, exploring how these issues connect policy, communities, and organizations. The event will take place in the **UMC Aspen Rooms 285, 287, and 289 at CU Boulder**. The event is free, and food will be provided. **RSVP required.**



Career Services Workshops: REUs, Research Positions, and Internships

Getting ready to apply for summer REUs, research positions, or internships? Career Services is hosting two interactive workshops this November to help you put your best foot forward. Bring your Buff OneCard to in-person sessions, and register through Handshake via Buff Portal.

Resume & Cover Letter Writing Workshop. Learn how to tailor your skills and experiences so your application materials stand out to employers and research labs.

- In person: Thursday, Nov 5, 2:00 to 3:00 PM, C4C S440
- Virtual: Monday, Nov 9, 5:00 to 6:00 PM

Job & Internship Search Strategies Workshop.
Discover effective search methods, networking techniques, Handshake strategies, and ways to connect directly with hiring managers.

- Tuesday, Nov 10, 11:00 AM to 12:00 PM, C4C N200 (Access+ Lounge)

More Details

Student Opportunities

NGA Virtual Hiring Fair

The National Geospatial-Intelligence Agency (NGA) is hosting a large-scale virtual hiring event on December 7–8, 2026, targeting critical hiring needs in geospatial intelligence (GEOINT), data science, maritime domain awareness, and systems engineering. Opportunities include positions in cartography and maritime GIS analysis, oceanography, maritime analysis, research and development, software development, and systems engineering.

Applications are due **TOMORROW, October 31st!** Qualified applicants may be invited to participate in virtual interviews during the hiring event.

Students and alumni interested in these opportunities should apply through the **NGA Careers Website**. For questions, contact **recruitment@nga.mil**.

Grounded Relations & Repair - New Exhibition - Oct. 30th



A new exhibition exploring the cartographic history of the lands where CU Boulder resides will open October 30. Featuring maps and stories from Native artists and intellectuals, the exhibition recognizes the ongoing presence of Native nations and explores histories and relationships between Native nations, Colorado, and the university. More information will be available soon about this collaboration between Dr. Isaac Rivera and the Map Library.

Pathways To Science Resources

Looking for more opportunities?

Pathways to Science provides summer opportunities, internships, scholarships, short-term opportunities, and more! Click the link below for more information.

Learn More

CASFM Graduate Scholarships

The Colorado Association of Storm and Floodplain Managers (CASFM) is offering **$5,000 scholarships** to undergraduate and graduate students in Colorado. **Eligible fields include geology, geomorphology, hydrology, geospatial data science, climatology, environmental engineering, and related disciplines.**

Graduate applicants must be enrolled in a Colorado graduate program and taking at least 3 credit hours per semester. Scholarship recipients may also receive opportunities to attend or present at the 2026 CASFM Conference, including conference registration and 3 nights of lodging.

Application Deadline: November 2th, 2026

Learn More & Start Application Here!

Applications Open: 2027 NSF SOARS Summer Research Program

The National Science Foundation's Significant Opportunities in Atmospheric Research and Science (NSF SOARS) program is accepting applications for its **2027 paid, 11-week summer research internship in Boulder, Colorado.** Undergraduate students interested in atmospheric and Earth system sciences can gain hands-on research experience, work with research and writing mentors, and participate in professional development workshops. **Participants receive $23.41 per hour, furnished housing, round-trip travel support, and potential undergraduate tuition assistance.** Applicants must be U.S. citizens or permanent residents, have at least one year of undergraduate study completed, and have at least one semester remaining after the summer program.

Application deadline: January 19, 2027, at 11:59 p.m. MT. Learn more and apply through the **NSF SOARS application page**.

Bureau of Reclamation Paid Summer Internship

The **Bureau of Reclamation Technical Service Center** in Lakewood, Colorado, offers an **11-week paid summer internship program** for undergraduate and graduate students, with competitive pay based on education level. Past projects have included river restoration, geomorphic mapping, paleoseismology, reservoir sedimentation modeling, hydraulic modeling, applied hydrology, and GIS and remote sensing.

Reclamation representatives will attend the CU Earth Science Symposium on November 7, providing an opportunity to learn more about the program. For details, visit the **internship website** or contact Melissa Foster at **mfoster@usbr.gov**.

DoD SMART Scholarship

The SMART Scholarship provides funding opportunities for undergraduate and graduate students pursuing STEM degrees. Applicants must be citizens of the U.S., Australia, Canada, New Zealand, or the United Kingdom.

Deadline: 5 p.m. ET on the first Friday in December

Learn more

DOE Computational Science Graduate Fellowship (CSGF)

Applications are open for the **Department of Energy Computational Science Graduate Fellowship's 2027–2028 incoming class**, the program's 37th cohort. Undergraduate seniors and first-year graduate students are eligible to apply.

Deadline: Thursday, January 7, 2027

Learn more

Funding Opportunity: 2027 Rich Herbert Memorial Scholarship

The Colorado Section of the American Water Resources Association (AWRA) is accepting applications for the **2027 Rich Herbert Memorial Scholarship**, which supports undergraduate and graduate students conducting research related to Colorado's water resources. Eligible students enrolled in an accredited Colorado college or university may apply if their research involves areas such as hydrology, hydrogeology, geomorphology, aquatic biology, environmental science, water policy, or engineering. **Previous scholarship awards have ranged from $500 to $6,000.**

Application deadline: January 9, 2027. Applications must include a one-page research abstract explaining its relevance to Colorado water resources, a one-

page resume, and a letter of recommendation from the faculty advisor overseeing the research. Recipients will present their research at the AWRA Colorado annual symposium on April 23, 2027, in Golden. Visit the **AWRA Colorado scholarship page** for application details.

Scholarship Opportunity: AIPG National Undergraduate Scholarship

The American Institute of Professional Geologists (AIPG) is accepting applications for its **National Undergraduate Scholarship, which awards $1,000–$3,000 to undergraduate students majoring in geology or Earth science.** Applicants must be at least sophomores at an accredited U.S. college or university, have a minimum 2.8 GPA overall and a 3.0 GPA in at least 12 completed semester credits of geology or geoscience courses, and be current AIPG student members or apply for membership when submitting their application. Student membership is free.

Application deadline: February 1, 2027. Application materials include a cover letter, an essay titled “Why I Want to Be a Geologist,” an unofficial transcript, proof of enrollment, a portrait, and a letter of recommendation from a geology or geoscience professor. Visit the **AIPG Undergraduate Scholarship page** for eligibility requirements and application instructions.

Outside the Classroom

Something Missing From the Newsletter?



Have an announcement, event, opportunity, publication, or other news you’d like to share with the graduate community? Submit it for consideration in an upcoming newsletter! Please use the Newsletter Submission Google Form to send us your information.

Be sure to submit your announcement by **5 p.m**. **Tuesday** to be considered for that week’s newsletter.

Add to Newsletter!

Be sure to follow our Instagram page @**cubouldere arthsci** for updates including upcoming events, department news, and photos from our students!

View our Page

Just so you know...

The undergrad newsletter will be sent out each Friday afternoon, so check back weekly for news, job and funding opportunities, and messages from the department. If you have something you would like to share in a future edition of the newsletter, please email **earthscience@colorado.edu**

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