



EARTH AND ENVIRONMENTAL SCIENCES

Equipping students for careers in both the development and stewardship of the Earth's energy, mineral, and water resources

The educational and scientific mission of the Department of Earth and Environmental Sciences is to understand the origin, evolution, and future of the Earth. This includes how it formed as a planet, how it progressed to its present state, how life originated and evolved on Earth, how the solid earth, oceans, atmosphere and biosphere all interact, and how Earth's climate and environment have changed in the past and will continue to change as a result of human activities. We are educating students in unique areas of expertise that are needed for both the development and stewardship of Earth's energy, mineral, and water resources. The 2011 change in the department name from Geological Sciences to Earth and Environmental Sciences reflects the broadening societal relevance of our research and teaching to address the world's current and future environmental challenges and natural resource limitations.

The department offers an excellent undergraduate program and a graduate program in geology that was ranked #1 in the nation by *U. S. News & World Report*. Through extensive coursework, field opportunities, research, and co-curricular activities, our students explore topics as wide-ranging as global change, geochemistry, geophysics, mineralogy, paleontology, and oceanography. Our students receive a top-notch foundation that prepares them for highly adaptable and versatile careers in the energy, mining, and environmental consulting industries, as well as for employment in academia, business, and government. To remain in the forefront of this rapidly expanding discipline focused on the critical natural resources that sustain a modern industrial civilization, we need to provide students with opportunities to gain field experience, undertake research utilizing the best tools available, and pursue advanced degrees without assuming crippling debt.

UNDERGRADUATE RESEARCH OPPORTUNITIES

With the increasing urgency to train a new generation of geological, Earth, and environmental scientists, who will become the specialists addressing our future natural resource policies, we must attract and retain the brightest and most promising students at the undergraduate level. As the number of undergraduates majoring in EES increases, gifts of \$50,000 or more will provide the resources needed to enhance their academic experience by increasing scholarship support and research opportunities.

UNDERGRADUATE FIELD EXPERIENCE FUND

Field investigations are at the very heart of the Earth and environmental sciences. U-M's campus offers an intellectually rich living and learning environment full of cultural diversity, but to enable our students to experience geologic and environmental diversity we must provide opportunities for field learning experiences. Gifts of \$50,000 or more will help to defray the cost of field experiences in the U.S. and abroad to make these opportunities accessible to all students.

GRADUATE FELLOWSHIP SUPPORT

The success of our programs depends upon recruiting and retaining the highest caliber graduate students, and providing sufficient financial support is crucial to that effort. Graduate fellowships are more highly valued than ever due to rising costs and the loss of public funding. Gifts of \$1M endowed or \$50,000 annually allow our faculty to engage more students in their research programs, which both enriches students' academic experiences and reduces their need to seek outside employment while learning to be teachers and scholars.

CAMP DAVIS FIELD STATION ENDOWED SUPPORT FUND

A gift of \$1M would establish an endowed Camp Davis Endowed Support Fund to provide continuing resources for future facilities improvements to enhance program growth and availability.



“Field camp is so important. I attended Camp Davis for Earth 116 the summer after my first year at Michigan, and without that thrilling and engaging experience I never would have discovered my own interest in geology.”

–Savannah McDowell, B.S. '21



CAMP DAVIS ROCKY MOUNTAIN DINING/REC HALL RENOVATION

Camp Davis, a previously abandoned Wyoming homestead, has grown from a summer surveying camp to a teaching and research facility offering a variety of courses in subjects that range from geology and environmental sciences to the humanities. For more than 80 years, the Camp Davis program has provided a unique and inspiring educational experience for thousands of undergraduate students. Camp Davis has experienced dramatic growth in both course offerings and student enrollments. Through an aggressive renovation plan, infrastructure improvements have been made and cabins were replaced in 2019. Renovations still are needed for the dining/recreation hall, which is the primary facility for students to gather for meals and to relax while they debrief research experiences. The current space is deteriorating and gifts of all sizes will help us provide a safe, environmentally conscious and comfortable facility for our program participants in the decades to come. A gift of \$1M would fully fund the project.

RESEARCH AND TEACHING INITIATIVES FUND

Gifts of \$10,000 or more are needed to support groundbreaking research and teaching initiatives that are not funded by traditional channels. Funds could be used for state-of-the-art scientific equipment or technology upgrades for research and learning, seed money for faculty proposals for promising research or teaching ideas, post-doctoral training, or other opportunities to support our research and teaching mission.

WAYS TO FUND YOUR GIFT

Your gifts of cash, pledges, or appreciated securities change lives. Wills, estate, and planned gifts allow you to create a lasting legacy that will enable the best and brightest minds to experience a liberal arts education, solve problems in a changing world, and yield ideas and innovations that will make a difference in Michigan and around the globe.

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