

## Courses and research experiences on:

- Water availability & quality
- Food production
- Environmental health
- Energy development
- Mineral resource discovery
- Natural hazards (e.g., earthquakes and flooding)



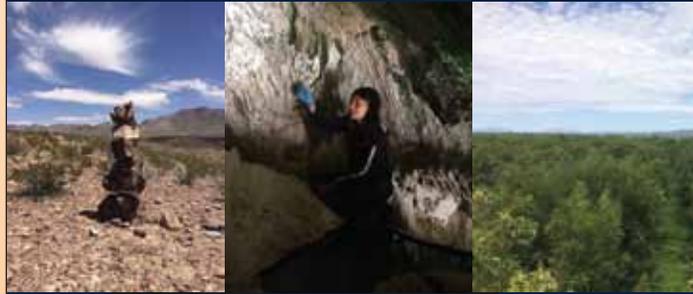
Interdisciplinary research and training opportunities to investigate key linkages between flood irrigation, salt loading and soil-atmosphere CO<sub>2</sub> exchange in desert agricultural soils

## Career opportunities growing in:

- Industry, especially environmental consulting
- Academia from high school teaching to community and 4-year colleges
- Government agencies especially in geospatial technologies



Professor José Hurtado testing space exploration technologies with NASA in Arizona



In addition to our wonderful climate, the El Paso region offers an excellent natural laboratory around our campus. The surrounding geological features, presence of the Rio Grande, and nearby agricultural, mining and energy projects provide excellent real-world opportunities for exploring critical challenges facing our world. We blend field-based studies with high-tech analytical and computational approaches to produce students who are sought after by industry, academia and government.

Our Department offers B.S., M.S. and Ph.D. degrees in:

- **Geological Sciences**
- **Geophysics**

And in conjunction with Faculty from Biology and Chemistry we also offer B.S. and M.S. degrees in:

- **Environmental Sciences** with concentrations in Geoscience, Hydroscience, Chemistry or Biology

**Come join us!**



Hydro-Geophysics class in the Valles Caldera National Preserve, New Mexico

THE UNIVERSITY OF TEXAS AT EL PASO

DEPARTMENT OF EARTH, ENVIRONMENTAL  
AND RESOURCE SCIENCES  
(DEERS)

*Experience-based education & research beyond the classroom to prepare students for the careers of the 21st century.*



This is not an environmental disaster! It is a "Travertine" deposit. Travertines are rocks deposited from spring waters, which provide important records of past climate, tectonic activity, and water movement in Earth's crust.

[science.utep.edu/geology](http://science.utep.edu/geology)

[geology@utep.edu](mailto:geology@utep.edu)



Our faculty & students immerse themselves in research that includes many aspects of Earth materials, processes and human interactions.

Our research impacts society on the local, national and global scales in the areas of energy, water, food, minerals & health.



Professor Aaron Velasco in the Kingdom of Bhutan

## Geoscience careers give you the opportunity to visit incredible places !

Professor Marianne Karplus & Colleagues in Antarctica



The Economic Geology team is addressing our nation's need for critical minerals, dealing with fracking produced water, and training new entrepreneurial geoscientists.



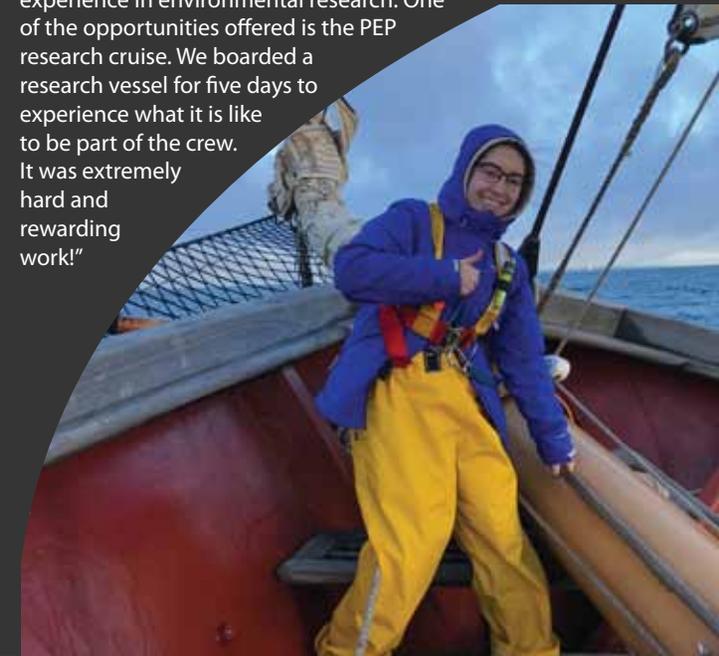
Our Geospatial Analytics and Technologies team is developing state-of-the-art GIS, remote sensing, data science, and intelligent unmanned aerial and ground systems to understand our region and other parts of the world. Topics such as water security & management allow students to interact with a broad array of disciplines across UTEP.



DEERS seeks to support our students financially and in career development. This year's students received approximately \$45,000 in scholarships. Our faculty perform \$2 million per year in externally-funded research involving students. We help our students find internships and start careers with companies and government agencies around the country.

Example: Angela Trejo, B.S. in Environmental Sciences

"I was accepted to participate in the Woods Hole Partnership in Education Program (PEP) as a 2019 summer intern. I worked at the Marine Biological Laboratory in Woods Hole, MA, and gained experience in environmental research. One of the opportunities offered is the PEP research cruise. We boarded a research vessel for five days to experience what it is like to be part of the crew. It was extremely hard and rewarding work!"



Angela on board of the SSV Corwith Cramer Research Vessel