



WE ARE HIRING

Postdoctoral Fellow – School of Environmental & Marine Science (SRGV8408)

Division of Academic Affairs

Scope of Job

Trainee position to pursue research as a vital component of educational mission and professional career development. Works under minimal supervision with some latitude in the use of initiative and independent judgment in research and/or teaching. Performs teaching and/or research work as required within the classroom and/or project assigned.

Required Education

Doctoral degree in Earth or Planetary Sciences, or a related discipline, from an accredited university..

Preferred Experience

- *Experience in working with LiDAR change detection and derived digital elevation model (DEM).
- *Experience in using landscape evolution, flow routing, sediment transport, or hydrological models.
- *Experience with drone survey and data processing.
- *Field experience in geomorphological and hydrological surveys.
- *Experience in mentoring undergraduate and graduate students.

Location

Edinburg, TX

Salary

Commensurate with Experience

Get in Contact:

✉ careers@utrgv.edu  careers.utrgv.edu

☎ (956) 665-2451 or (956) 882-8205

The University of Texas – Rio Grande Valley (UTRGV) is an Equal Opportunity Employer

The Geomorphology Laboratory at the University of Texas Rio Grande Valley (UTRGV), led by Dr. Tian Y. Dong, is looking for a postdoctoral researcher to join us for Fall 2025 to work on a collaborative project funded by the U.S. Geological Survey. The ideal start date is September 1st, 2025.

What is the project about:

- Detecting geomorphic change in the lower Rio Grande Valley using airborne LiDAR datasets collected in 2011 and 2022
- Interpreting geomorphic changes to address applied questions about the US-Mexico border and the Rio Grande
- Using the high-resolution LiDAR dataset and numerical models to address broader questions in geomorphology and hydrology
- Performing fieldwork on the lower Rio Grande, taking advantage of the unique location of UTRGV directly adjacent to the banks of the river

Who are the team members:

- Dr. Tian Y. Dong, UTRGV, primary mentor and project PI
- Dr. Timothy Goudge, University of Texas at Austin, collaborator
- Dr. Joel Sankey and David Dean, USGS Grand Canyon Monitoring and Research Center in Flagstaff, AZ, collaborators
- Dr. Haiqing Xu, University of Nevada, Las Vegas, collaborator

What do we offer:

- 18-month appointment with a salary of \$53,590.50, and full benefits, including health insurance and retirement plan contributions (The Rio Grande Valley enjoys a vigorous and growing economy with a high standard of living and one of the country's lowest living costs)
- Support to travel to UT Austin and the USGS office in Flagstaff, AZ, to work directly with project collaborators
- Support to attend AGU annually
- Support to purchase research equipment (e.g., laptop)
- Flexibility to work remotely if desired and if this fits with the final plan for postdoctoral research

What skills are required for this position:

- A Ph.D. in Earth or Planetary Sciences or related disciplines at the time of appointment
- Experience in working with LiDAR change detection and derived DEM.

What skills are desirable but not required for this position:

- Experience in using landscape evolution, flow routing, sediment transport, and/or hydrological models
- Drone survey and data processing experience
- Field experience in geomorphological and hydrological surveys
- Experience in mentoring undergraduate and graduate students

Apply here by August 12th: <https://careers.utrgv.edu/postings/47904>