

The Geomorphology Laboratory at the University of Texas Rio Grande Valley (UTRGV), led by Dr. Tian Y. Dong, is looking for **four master's students** in [Ocean, Coastal, and Earth Science] or [Agricultural, Environmental, and Sustainability Sciences] to join us for Spring 2024 or Fall 2024. [We] use field and remotely sensed observations, numerical models, and theories to study surface processes in environments such as rivers, deltas, aeolian, and coastal systems and the associated development of sedimentary records on Earth, Mars, and Beyond.

What and where are we working:

- A project funded by the Department of Energy to study water, sediment, and nutrient accumulation between abandoned channels of the Rio Grande Delta
- Locally about the Rio Grande, Bahía Grande, and other landforms in South Texas
- Proglacial rivers and deltas in Greenland
- River channel belts on Earth and Mars
- Broadly defined projects in Earth and planetary surface processes

What tools do we use:

- Drones with RGB, LiDAR and Multispectral cameras; RTK GPS
- High-performance desktops
- Laser diffraction particle size analyzer
- Acoustic instruments like single-beam sonar and ADCP

What do we offer:

- 12-month salary of \$15,000 for two subsequent academic years (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 with tuition and fees, research supplies (e.g., laptop), and attending conferences
- Opportunities to participate in research projects outside your own

What skills should you have:

- Background in Earth or Planetary Sciences or related disciplines
- Proficiency in Math, Physics, and Statistics

What skills should you have to be a stronger candidate:

- Proficiency in a coding language (e.g., Python, R, or MATLAB)
- Proficiency in GIS software (e.g., ArcGIS Pro) and a vector graphics editor (e.g., Illustrator)
- Drone survey and data processing experience
- Field experience in geomorphological and hydrological surveys

Important dates and information:

- The admission deadline is **rolling**, and apply [here]
- A GRE score is **not** required
- Interested candidates should send the following to **tian.dong@utrgv.edu**:
 - academic CV
 - a brief statement (maximum two pages) of research interests and experience and academic and personal goals