

## **Assistant Professor in Earth and Planetary Sciences-** **Planetary Systems Modeling**

The Department of Earth and Planetary Sciences (EPS) in the College of Sciences (COS) at the University of Texas at San Antonio (UTSA) invites applications for a tenure-track position in Earth and Planetary Systems Modeling at the Assistant Professor rank starting in Fall 2023.

The technical expertise and scholarship of the successful candidate will ideally complement and expand upon one or more areas of departmental expertise in water cycle science, geomorphology, geoinformatics, geology and geophysics, volcanology, sedimentology and stratigraphy, paleoenvironmental reconstruction, polar and climate sciences. We seek candidates who apply geospatial data (in situ, remote sensing, experimental, numerical simulations) and system modeling approaches to answer fundamental scientific questions related to the evolution and coupling of the lithosphere, hydrosphere, cryosphere, biosphere and atmosphere, in the Earth and Planetary systems. This position will provide research leadership opportunities in this emerging area that has broad scope for cross-disciplinary collaboration with faculty in this department or other departments and colleges. Research interests in associated sustainability issues will be valued. Depending on expertise and interest, the candidate may be considered for affiliation with the UTSA/NASA Center for Advancement Measurements in Extreme Environments, Institute for Water Research, Sustainability and Policy, School of Data Science, and/or UTSA AI Consortium for Human Well-Being.

### **Qualifications**

- *Required Qualifications:* Candidates must have a Ph.D. or equivalent degree in Earth and Planetary Sciences or a related field, demonstrate the potential to direct an independently funded research program, and excel in teaching. Candidates who have not completed their doctoral dissertations (ABD) will be considered.
- *Preferred qualifications:* The successful candidate will be expected to maintain an externally funded research program and support students, especially Ph.D. students. The successful candidate will also be required to teach courses in their field of expertise, and inclusively and equitably mentor trainees in their research environment. Strong candidates will have a demonstrated mentoring track record, with a commitment to mentoring students who are first-generation and from other traditionally underrepresented groups. Candidates should demonstrate their ability to work with, and be sensitive to, the educational needs of a diverse urban population.

### **UTSA and the College of Sciences**

UTSA, a Hispanic Serving Institution (HSI), is committed to hiring diverse, promising, and accomplished faculty in key areas fundamental to our future as an R1, urban-serving, Hispanic thriving discovery enterprise, deeply committed to student success and academic excellence including growing doctoral education.

With a focus on innovation and excellence through research in the classroom, the College of Sciences (COS) is dedicated to producing the next generation of forward-thinking, highly trained professionals and leaders. COS is devoted to providing an inclusive environment that ensures that all students receive the encouragement, assistance, and superior educational experience that they will need to succeed in the natural sciences, health and medicine, information technology, data science, and other ventures.

Earth and Planetary Sciences faculty have opportunities to be involved in multiple centers and institutes along with access to world class user facilities.

- UTSA's NASA Center for Advancement Measurements in Extreme Environments ([CAMEE](#)) is focused on recruiting, educating, and mentoring a diverse group of undergraduate and graduate interdisciplinary students to become leaders in Earth system sciences, remote sensing technologies, computational fluid dynamics, and experimental fluid mechanics.
- Institute for Water Research, Sustainability and Policy ([IWRSP](#)) serves as an entity that draws faculty within UTSA, as well as water professionals from around the San Antonio area and South Texas region, to identify water-related problems, to facilitate areas of common research interests, to address water resources for individuals, communities, agriculture, and industry, and to build an excellent research, teaching, and service center.
- UTSA AI Consortium for Human Well-Being ([MATRIX](#)) shares a common vision to solve challenges by fostering transdisciplinary teams that span academia, government, industry, and healthcare ecosystems to make tangible difference for human well-being.
- Launching in Fall 2022, the School of Data Science ([SDS](#)) offers data-intensive degree programs and research across every discipline. Located on the Downtown Campus, the SDS has 16 research centers and institute partners, and offers 5 graduate degree programs, 2 undergraduate degree programs, and is comprised of 30 core faculty spanning disciplines from science, technology, engineering, math, business, education, and public health.
- The UTSA Research Computing Support Group ([RSGC](#)) provides access to high-performance computing (HPC) architecture for researchers on campus and facilitates use of the Texas Advanced Computing Center.

The University of Texas at San Antonio, with nearly 35,000 students, is the largest university in South Texas. The City of San Antonio has a population of over one million and is known for its rich Hispanic culture, historic attractions, affordable housing, and excellent medical facilities. Nearby higher education and research institutions include UT Health San Antonio, Southwest Research Institute, and the Texas Biomedical Institute.

### Required Application Materials

- A **Cover letter** highlights the candidate's professional development and vision of how they can complement and integrate into the EPS department and UTSA in terms of research, teaching and enhancing diversity.
- **Research statement (up to 3 pages)** includes significant scientific contributions commensurate to rank, and future research directions, and a **Teaching statement (up to 2 pages)** includes teaching and mentorship contributions commensurate to rank, and vision for future engagement with a diverse undergraduate and graduate student body in the classroom and the lab. Each of these statements must include a discussion of how the candidate incorporates or plans to incorporate diversity and inclusion in the academic environment.
- **Curriculum Vitae**
- Contact information of **3 professional references**, including name, address, email and telephone

Application materials are submitted via the [UTSA Talent Acquisition website](#).

- For Internal Applicants: <https://bit.ly/3C4BllX>
- For External Applicants: <https://bit.ly/3Ry08oh>

Applicants selected for interviews must show proof that they will be eligible and qualified to work in the United States by the time of hire. UTSA is an Affirmative Action/Equal Opportunity employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

Additional information about the Department of Earth and Planetary Sciences, respectively, can be found on the following website: <https://www.utsa.edu/sciences/earth-planetary-sciences/>. In addition, questions may be directed to the search committee chair Hongjie Xie at [Hongjie.Xie@utsa.edu](mailto:Hongjie.Xie@utsa.edu).

Review of the completed applications will begin immediately and will continue until the position is filled, with priority being given to applicants who submit completed packets by **November 1, 2022**. Incomplete applications will not be reviewed. Compensation will be commensurate with experience. UTSA employees enjoy a competitive, comprehensive, and family-friendly benefits package.