

The University of Texas at Arlington
Assistant/Associate/Full Professor Professor of Environmental Sciences
Posting Number F00560P

Job Summary

The Department in Earth and Environmental Science in the College of Science, at the University of Texas at Arlington, invites applications for an Open Rank (Assistant, Associate or Full Professor) Tenure Track position in the broad area of environmental exposomics as part of larger multi-department omics cluster initiative within the College of Science. We seek a broadly-trained scientist who complements the interdisciplinary nature of the department and college to integrate omic-based approaches with environmental science. Relevant research areas for this hire would include: 1. machine learning of multi-dimensional environmental and health data to discover the etiology and pathology of chronic diseases; 2. study of collective effects of environment (physical, chemical, biological exposure, climate change) on organisms, including One Health remote sensing (land changes, pathogens, zoonotic disease); 3. exposomic global health data analytics (infectious disease, climate change) 4. Computational models for processing multi-OMICs data (overlay data from different strata of OMICs and environmental epidemiological investigation); 5. Omic (epigenetic, transcriptomic, proteomic, etc.) signatures of environmental exposure and their impacts on health.

Opportunities for collaboration exist within the department in the areas of geosciences, environmental chemistry and toxicology, environmental health, climate change, atmospheric chemistry, and with other research groups in the College of Science in the areas of genomics, proteomics, biochemistry, and data science. The ideal candidate would add to existing strengths in omic-scale approaches within the department and college, and benefit from existing and planned expansions of related infrastructure at UTA, including the North Texas Genome Center, the Shimadzu Center for Advanced Analytical Chemistry, and the Division of Data Science. Additional resources in the department include the Shimadzu Institute for Research and Technologies such as the Center for Environmental, Forensics, and Material Science and an ultraclean laboratory within the Earth and Environmental Science building.

Benefits at UTA

We are proud to offer a comprehensive benefits package to all our employees at the University.

To help you understand the full value of these benefits, we have created a tool that calculates the total worth of your compensation package. This tool takes into account all of the benefits that you are eligible for, including health insurance, retirement plans, and paid time off. To access this tool and learn more about the total value of your benefits, please click on the following link:

<https://resources.uta.edu/hr/services/records/compensation-tools.php>

CBC Requirement

It is the practice of The University of Texas at Arlington to conduct a criminal background check on any applicant who is under final consideration for employment with the University.

Essential Duties and Responsibilities

Standard research expectations for faculty include publishing research in peer-reviewed journals, acquiring research grants, and advising undergraduate and graduate students and postdocs in research. Startup packages are provided to enable new faculty to jump-start their research group in advance of winning research grants.

Faculty are expected to continuously improve their teaching, and UTA offers Learning and Development Resources as well as opportunities with the STEM Education Research Collaboratorium and Resource Center.

Service duties include departmental committee work (such as organizing colloquia, graduate student admissions, or faculty hiring), service to the university, service to the community, and national service to research and education infrastructure. Faculty often serve on national review panels, referee journal articles, and engage in public education and outreach.

Required qualifications

Applicants should have a doctoral degree in environmental science or in the geosciences.

We seek an individual with an established research and mentorship record who will develop new and expand existing collaborations among faculty, researchers, and students within and outside the Department of Earth and Environmental Sciences, as part of the Omics-related cluster initiative in the College of Sciences.

Department and College/School Information

The department consists of faculties who interact and collaborate within and between groups representing Earth and Environmental Sciences including atmospheric and environmental chemistry, environmental health, climate change and oceanography, geochronology, tracer hydrology, hydrogeology, paleoclimate, paleontology, and sedimentary geology. We offer both M.S. and Ph.D. graduate degrees in Earth and Environmental Sciences. Information on the EES program can be found at <http://www.uta.edu/ees/index.php>.

Located in the Department of Earth and Environmental Sciences, the Center for Environmental, Forensics, and Material Science encompasses the most up-to-date techniques for the study of major and trace element analysis, contaminant detection, and material structures. Instrumentation includes multiple X-ray platforms and electron microprobe analyzer, atomic absorption, inductively coupled plasma-mass spectrometry, Raman spectrometry, and Fourier transform infrared spectroscopy. The

facility has applications in environmental science, geological science, and material engineering.

University Information

The University of Texas at Arlington is located in the heart of the Dallas-Fort Worth-Arlington metroplex, a vibrant and diverse metropolitan area that is home to over 7 million people, one of the fastest-growing tech economies in the United States, and a wide array of arts, entertainment, and cultural activities. UTA is a comprehensive teaching, research, and public service institution dedicated to the advancement of knowledge through scholarship and creative work. The University is committed to providing access and ensuring student success, and to a culture of innovation, entrepreneurship, and commercialization of discoveries by our community of scholars. With an enrollment of more than 40,000 students, UTA is the second largest in the University of Texas System. As a result of its combination of rigorous academics and innovative research, UTA is designated as a Carnegie R-1 “Very High Research Activity” institution. UTA ranks No. 4 nationally in Military Times’ annual “Best for Vets: Colleges” list and is among the top 30 performers nationwide for promoting social mobility of its graduates (U.S. News & World Report, 2023). UTA is designated by the U.S. Department of Education as both a Hispanic-Serving Institution (HSI) and an Asian American and Native American Pacific Islander-Serving Institution (AANAPISI), and it has one of the top 5 most ethnically diverse undergraduate student bodies in the United States (U.S. News & World Report, 2023). Its approximately 270,000 alumni, including some who occupy leadership positions at many of the 24 Fortune 500 companies headquartered in North Texas, contribute to UTA’s \$22.2 billion annual economic impact on Texas.

Furthermore, UTA is poised to experience widespread growth in the near future. The university recently launched the first phase of its RISE 100 initiative aimed at recruiting 100 new tenure-system faculty to amplify research standing and position UTA as a leader in key scholarly areas; more details are available at <https://www.uta.edu/administration/president/strategic-plan/rise100>. The successful candidate for this position will have the opportunity to join UTA during an exciting period of growth and contribute as the university broadens its impact.

EEO Statement

It is the policy of The University of Texas at Arlington (UTA or The University) to provide an educational and working environment that provides equal opportunity to all members of the University community. In accordance with federal and state law, the University prohibits unlawful discrimination, including harassment, on the basis of race, color, national origin, religion, age, sex, sexual orientation, pregnancy, disability, genetic information, and/or veteran status. The University also prohibits discrimination on the basis of gender identity, and gender expression. Retaliation against persons who oppose a discriminatory practice, file a charge of discrimination, or testify for, assist in, or participate in an investigative proceeding relating to discrimination is prohibited. Constitutionally-protected expression will not be considered discrimination or

harassment under this policy. It is the responsibility of all departments, employees, and students to ensure the University's compliance with this policy.

ADA Accommodations

The University of Texas at Arlington is committed to providing reasonable accommodation to individuals with disabilities. If you require reasonable accommodation in completing this application, interviewing or otherwise participating in the employee selection process, please direct your inquiries to 817-272-5554 or email ADADocs@uta.edu.

Special Instructions to Applicant

To apply applicants should go to (<https://uta.peopleadmin.com/postings/29640>) and submit the following materials:

Required Documents:

- **Curriculum Vitae**
- **Cover Letter**
- **Unofficial Transcripts** (*required **only** for candidates for whom their degree is not in the same discipline as the one in which they will teach*)
- **Contact information for 3 references**
- **Summary of current and proposed research** (required three pages)
- **Statement of teaching interests** (required max. one page)

Review of applications will begin immediately and will continue until the position is filled.

Questions may be addressed to Search Committee Chair Prof. Un-Jung Kim at unjung.kim@uta.edu.

For more information about UTA, please visit: <http://www.uta.edu/uta>.