

Post-doctoral research associates  
University of Texas at Arlington

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Posted Aug. 3, 2024, set to expire Dec. 2, 2024

**Job Title** Post-doctoral research associates  
**Department** Civil Engineering  
<https://www.uta.edu/academics/faculty/profile?username=ashrafw>  
**Institution** University of Texas at Arlington  
Arlington, Texas

**Date Posted** Aug. 3, 2024

**Application Deadline** Aug. 15, 2024

**Position Start Date** January 2025

**Job Categories** Post-Doc

**Academic Field(s)** Civil Engineering

**Job Website** <https://ashraflab.uta.edu/>

**Apply By Email**

**Job Description**

### University Information

The University of Texas at Arlington is 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 approximately 46,000 students, UTA is the largest institution in North Texas and the second largest in the UT 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 and as a Texas Tier One institution. In 2021,

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UTA received the Higher Education Excellence in Diversity Award for its deep commitment to diversity, equity, and inclusion in higher education.

### Position Details

The Ashraf lab at the University of Texas at Arlington is seeking multiple post-doctoral research associates with a Ph.D. degree in civil engineering or other closely related disciplines including material science, chemistry, and chemical engineering. The post-doctoral research associate will work with Dr. Warda Ashraf on multiple federal and state-funded research projects. Visit <https://ashraflab.uta.edu/> to learn more about our research.

The post-doctoral position will start as early as July 2024. The initial appointment will be for one year and can be extended based on mutual agreement.

### Research Areas:

- CO<sub>2</sub> mineralization in alkaline waste and (ii) Rheological properties of cementitious materials.

### Requirements:

1. Ph.D. in Civil Engineering or related field with research experience on cementitious materials
2. Proven record of research accomplishments through publications in peer-reviewed journals and presentations at national/ international conferences
3. Strong fundamental understanding of various low-carbon cementitious materials
4. Experimental skill in processing/characterizations of cementitious materials (e.g., SEM, TEM, XRD, etc.)
5. Ability to work in a team environment with strict deadlines
6. Oral and written communication skills in English, and self-motivation with strong work ethics

### Responsibilities

1. Design and conduct nano/micro-scale experimental investigations on low-carbon cementitious materials.
2. Analyze data, prepare project reports, and draft high-quality scientific publications.

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3. Present project updates to the federal sponsors regularly.

Interested candidates should email their CVs, academic transcripts, and two representative publications to Dr. Warda Ashraf by August 15, 2024.

**Contact Info:**

Warda Ashraf, Ph.D.

Associate Professor

Department of Civil Engineering

The University of Texas at Arlington

Arlington, TX 76010

USA

e-mail: [warda.ashraf@uta.edu](mailto:warda.ashraf@uta.edu)

Research website: <https://ashraflab.uta.edu/>

**Salary range:** \$60,000 to \$65,000

**Documents required:**

- CV
- Three contacts of reference
- Two representative publications

**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Warda Ashraf  
Civil Engineering  
University of Texas at Arlington  
Arlington, TX



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**Contact E-mail**    warda.ashraf@uta.edu