

Postdoctoral Research Associate
Texas A&M University

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Posted Dec. 16, 2024, set to expire Apr. 17, 2025

Job Title	Postdoctoral Research Associate
Department	Texas A&M University AgriLife Research Center/Biological and Agricultural Engineering
Institution	Texas A&M University Stephenville, Texas
Date Posted	Dec. 16, 2024
Application Deadline	Open until filled.
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Bioengineering (all Bio-related fields) Ecological and Environmental Agricultural Chemical/Petroleum Chemical/Petroleum Ecological and Environmental
Job Website	https://tamus.wd1.myworkdayjobs.com/en-US/AgriLife_Research_External/details/Postdoctoral-Research-Associate_R-077635?q=stephenville

Apply By Email

Job Description

Research fields: Environmental biotechnology, biochar technology, waste-derived biofuels and bioproducts, advanced water treatment/reuse, advanced materials for environmental remediation

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Description

We seek a highly motivated full-time Postdoctoral Research Associate with interest in environmental biotechnology, biochar technology, waste-derived biofuels and bioproducts, advanced water treatment/reuse, advanced materials for environmental remediation.

Responsibilities

- Environmental biotechnology and biochar technology for wastewater treatment/reuse, runoff water treatment, anaerobic digestion, greenhouse gas control, and other applications
- Novel water treatment to remove various emerging contaminants and pathogens
- Novel microbial and algal biofuels and bioproducts
- Advanced materials for environmental applications
- Supervise technicians and undergraduates.
- Coordinate research activities with a large team of collaborators.
- Present data in scientific meetings.
- Prepare manuscripts for publication.

Required Education and Experience

- A Ph.D. in environmental engineering/science, chemical engineering, biological engineering, agricultural engineering, microbiology, biochemistry, and other relevant disciplines.
- Experience with water treatment, biofuel and bioproduct, emerging contaminants, and advanced materials.
- Strong publication record in peer-reviewed journals

Required Knowledge, Skills and Abilities

- Excellent English writing and oral communication skills
- Strong organizational skills
- Ability to work in a collaborative environment
- Basic statistical skills

DESIred Knowledge, Skills and Abilities

- Production and applications of biochar for environmental, energy and agricultural processes
- Environmental biotechnology for analyzing microbial communities, antibiotic resistance, microbial pathogens, and microbial metabolites

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- Production of biofuels and bioproducts from agricultural waste, microalgae, and other biomass
- Treatment of emerging contaminants (such as antibiotics, algal toxins, PFAS) in water and soil
- Production, characterization, and applications of advanced materials, including biochar and carbon materials
- Analytical instruments (i.e., LC/MS, HPLC, GC, ICP, IC, XRD, SEM/EDX, XPS etc)
- Analysis of nutrients, antibiotics and microbial pathogens from soil, water and plant
- Molecular techniques including qPCR and 16S microbial community analysis
- Statistical analysis and design of experiment

HOW TO APPLY

Applicants should upload at the link (https://tamus.wd1.myworkdayjobs.com/en-US/AgriLife_Research_External/details/Postdoctoral-Research-Associate_R-077635?q=stephenville).

- 1) A cover letter clearly explaining your research interests/experience and suitability for the advertised position (2 pages maximum)
- 2) A detailed CV (or resume) to list education, professional experience, publications, projects, and skills
- 3) Names, phone numbers and e-mail addresses for three references

Contact Information

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

Contact Eunsung Kan
Texas A&M University AgriLife Research
Center/Biological and Agricultural Engineering
Texas A&M University
Stephenville, TX 76401

Contact E-mail eunsung.kan@ag.tamu.edu