

Graduate Research Assistant
South Dakota School of Mines and Technology

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Posted Apr. 19, 2022, set to expire Aug. 19, 2022

Job Title Graduate Research Assistant

Department Civil and Environmental Engineering/Chemical and
Biological Engineering/Nanoscience and
Nanoengineering

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Institution South Dakota School of Mines and Technology
Rapid City, South Dakota

Date Posted Apr. 19, 2022

Application Deadline May 20, 2022

Position Start Date Aug. 20, 2022

Job Categories Graduate Student

Academic Field(s) Sustainable Engineering
Polymer Science
Material/Metallurgy
Ecological and Environmental
Civil Engineering
Chemical/Petroleum
Bioengineering (all Bio-related fields)
Agricultural
Engineering - Other

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Job Description

Seeking: Doctoral Students in Environmental, Biochemical, and Materials Engineering
Topic: Conducting Life Cycle Analyses, developing advanced biopolymer materials, and engineering microbial biochemical biodegradation of biopolymers

Start Date: Summer/Fall 2022

The Departments of Civil and Environmental Engineering, Nanoscience and Nanoengineering, and Chemical and Biological Engineering and the Composite and Nanocomposite Advanced Manufacturing & Biomaterials (CNAM Bio) Center invite applications for three doctoral graduate research assistant positions to work on recently funded NSF project entitled BioWRAP (Bioplastics with regenerative agricultural properties). South Dakota Mines is a small engineering and science focused university which is well known for its academic quality, high student retention and outcome, and affordability. South Dakota Mines is in Rapid City, which is in western South Dakota between the scenic Black Hills and Badlands. Rapid City is one of the fastest growing regions in the western United States.

These graduate students will be working with an interdisciplinary team at South Dakota Mines, Kansas State, and University of Nebraska-Lincoln. Research focus areas will be 1) engineering fully biodegradable, sprayable biopolymers, 2) engineering microbes and microbial interactions to control biopolymer properties, and 3) analyzing life cycle impacts of biopolymer manufacturing and use within field crop production.

Ideal candidates should possess a Master or Bachelor's degree in materials engineering, environmental engineering, biopolymer engineering, chemical engineering, biochemical engineering, agricultural engineering, or related degree with a minimum field related GPA of 3.0. For international students, TOFEL score is of 20 or greater for Listening, Writing, Speaking, and Reading subsections or IELTS of 6.5 or above.

Interested students are encouraged to provide their curriculum vita, GPA, TOFEL/IELTS scores, references, and any relevant past publications directly to research topic leads. Please include "BioWRAP Position Application" as your email subject.

Chris Shearer (Shearer@sdsmt.edu) in the Civil and Environmental Engineering Department for sustainable materials engineering research,

David Salem (Salem@sdsmt.edu) in the Nanoscience and Nanoengineering Department for biopolymers engineering research,

Rajesh Sani (sani@sdsmt.edu) in the Chemical and Biological Engineering Department for microbial engineering research, and

Heidi Sieverding (sieverding@sdsmt.edu) in the Civil and Environmental Engineering Department for life cycle analysis or environmental engineering.

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EEO/AA Policy

South Dakota Mines does not discriminate on the basis of race, color, creed, religion, national origin, ancestry, gender, marital status, pregnancy, sexual orientation, age, disability, veteran's status or any other protected class in the offering of all benefits, services, and educational and employment opportunities.

Contact Information

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

Contact Heidi Sieverding
Civil and Environmental Engineering/Chemical and
Biological Engineering/Nanoscience and
Nanoengineering
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