

Graduate Students  
South Dakota School of Mines and Technology

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Posted Jan. 17, 2024, set to expire May 26, 2024

**Job Title** Graduate Students  
**Department** Mechanical Engineering  
<http://sdsmt.edu/me>  
**Institution** South Dakota School of Mines and Technology  
Rapid City, South Dakota

**Date Posted** Jan. 17, 2024

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Graduate Student

**Academic Field(s)** Mechanical Engineering

**Job Website** <https://sites.google.com/hawk.iit.edu/xuanhongan/about>

**Apply By Email**

**Job Description**

The Flow Control Lab (<https://sites.google.com/hawk.iit.edu/xuanhongan/about>) in the Department of Mechanical Engineering at South Dakota School of Mines and Technology (South Dakota Mines) is seeking Ph.D. students with backgrounds in applied mathematics, physics, or engineering for research in the field of computational fluid dynamics (CFD), experimental fluid mechanics and data-driven modeling.

Our research is focused on pioneering innovative design concepts to enhance the performance of aircraft and underwater vehicles and developing low-order models for controlling aircraft in extreme flight conditions such as dynamic stall. We collaborate with esteemed research labs at institutions including Princeton University, the University of Iowa, Florida State University, the University of Dayton, and the Air Force Research Lab.

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The principal investigator, Dr. Xuanhong An, of the Flow Control Lab, earned his Ph.D. in Mechanical and Aerospace Engineering from the Illinois Institute of Technology and completed a postdoctoral position at Princeton University before joining South Dakota Mines.

For more information about graduate education in the Department of Mechanical Engineering at South Dakota Mines, please visit <https://www.sdsmt.edu/ME/>. We offer graduate financial support through research assistantships (RA) and teaching assistantships (TA). To learn more about South Dakota School of Mines and Technology, please visit <https://www.sdsmt.edu/>.

Interested applicants are encouraged to send a single PDF file containing (1) a cover letter and (2) a CV with details of their research experience and interests to [xuanhong.an@sdsmt.edu](mailto:xuanhong.an@sdsmt.edu).

### Contact Information

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

**Contact**     Dr. Xuanhong an  
Mechanical Engineering  
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