

Assistant Professor
Nanoscience and Nanoengineering

The South Dakota School of Mines & Technology invites applications for a 9-month tenure-track faculty position in Nanoscience and Nanoengineering at the Assistant Professor level in the area of computational nanoscience, imaging informatics and bio-informatics. The position will be the third new faculty position in Nanoscience at South Dakota Mines in support of a newly-formed statewide research center: The Biochemical Spatiotemporal NeTwork Resource (BioSNTR). BioSNTR is focused on advanced fluorescence and optical imaging methods to leverage bioinformatics towards the understanding of signaling networks and their regulation in living systems. BioSNTR is a collaboration between research university partners South Dakota State University, the University of South Dakota, and South Dakota Mines, with industrial partners at Sanford Research. As a member of BioSNTR, the successful candidate will be provided a competitive salary and start-up package, and access to center staff and shared resources, including high performance computing infrastructure. The selected candidate will be expected to contribute to the South Dakota Mines Nanoscience and Nanoengineering PhD program by developing a robust extramurally funded research program, through teaching and development of graduate courses relevant to Nanoscience and Nanoengineering, and through mentoring and advising of PhD students, as well as building strong research teams within BioSNTR. Specific interests for this position are candidates who could contribute to the imaging informatics and analysis of high volume microscopy data generated by our newly constructed lattice light sheet microscope, correlative atomic force microscopy (AFM) and fluorescence, multiphoton, and high content imaging microscopy systems, and connect this data with computational biology and next generation sequencing. Individuals whose research emphasis can complement on-going efforts in biophotonics, super-resolution imaging methods, and the combination of AFM and fluorescence microscopy for correlative imaging of bio-systems are particularly encouraged to apply.

Applicants must possess a PhD in a science or engineering discipline closely aligned with Nanoscience and Nanoengineering and/or one of the above-mentioned research emphases. The successful candidate will become a faculty member in an interdisciplinary doctoral program in Nanoscience and Nanoengineering, with an anticipated start date of August 22, 2016. Email Steve.Smith@sdsmt.edu for further information regarding this position.

Established in 1885, the South Dakota School of Mines & Technology is a science and engineering research university located in Rapid City, South Dakota. South Dakota Mines is a public university offering bachelor's, master's, and doctoral degrees in engineering and science. Known for our academic rigor, we maintain a 14:1 student-to-faculty ratio. Our students benefit from immersive learning experiences including undergraduate research, co-ops/internships, and numerous nationally competitive engineering teams. Our graduates have a 98% placement rate and an average starting salary of over \$63,000. Our Research Programs are concentrated in four areas: energy and environment; materials and manufacturing; STEM education; and underground science. South Dakota Mines is a growing university that enrolls over 2,800 students from 47 states and 46 countries.

Rapid City is in the Rushmore Region of South Dakota. The state's second largest city (with an urban population of 72,638 and metropolitan population of 141,431) is nestled at the foot of the beautiful Black Hills. Mount Rushmore, the Badlands National Park and Crazy Horse Memorial are all within an hour of the University. Rapid City enjoys a relatively mild climate and offers year-round recreational opportunities, including hiking, bicycling, skiing, snowboarding, fishing, and hunting, to name a few. For more information about the South Dakota Mines and Rapid City, visit: www.sdsmt.edu and <http://visitrapidcity.com/>.

South Dakota Mines is committed to recruiting and retaining a diverse workforce and offers an excellent comprehensive benefits package including paid medical and life insurance for our employees, as well as medical, dental and vision coverage for spouses and dependents; retirement plans; paid holidays; and a generous sick day allowance. Individuals interested in this position must apply online at <http://www.sdsmt.edu/employment>. Human Resources can provide accommodation to the online application process and may be reached at (605) 394-1203. Review of applications will begin April 15, 2016, and will continue until the position is filled. Employment is contingent upon completion of a satisfactory background investigation.

South Dakota School of Mines & Technology does not discriminate on the basis of sex, race, color, creed, national origin, ancestry, citizenship, gender, gender identification, transgender, sexual orientation, religion, age, disability, genetic information or veteran status in employment or the provision of service.