The South Dakota School of Mines and Technology (SDSMT) Physics Department invites applications for a tenure-track faculty position in condensed matter theory. The successful candidate is expected to build a strong externally funded research program, supervise graduate students, and teach at the undergraduate and graduate level. He or she will also participate in the full range of faculty responsibilities, including academic advising, service on committees, sustained scholarly research, and outreach activities. The anticipated start date is Fall semester, 2020.

We seek to hire a tenure-track faculty member who is a condensed matter theorist in the field of advanced materials, broadly defined. Of particular interest are candidates with research expertise in any of the following areas of material properties such as spontaneous polarizations (magnetic, ferroelectric or multiferroic), phase transitions including quantum phase transitions, materials with topological phases, and computational materials science or closely related. Exceptionally qualified candidates, with a proven record of sustained ability to obtain external research funding, will be considered for an appointment at the Associate Professor level. Qualified applicants must have a PhD in Physics or a closely related field by the time of appointment. Post-doctoral research experience is highly desirable. The Physics Department and the Department of Chemical and Biological Engineering jointly own a 200-processor, 64-bit Beowulf cluster. We also have access to high performance computing facilities nationwide.

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 an average class size of 24. Our students benefit from immersive learning experiences including undergraduate research, co-ops/internships, and numerous nationally competitive engineering teams. Our Research Programs are concentrated in four areas: energy and environment; materials and manufacturing; STEM education; and underground science and engineering.

South Dakota Mines is a growing university that enrolls around 2,550 students from 46 states and 41 countries and is ranked as the best engineering school for return on investment out of 302 similar institutions across the United States. The SD Mines placement rate for recent graduates is 97 percent.

Rapid City is the state's second largest city (with an urban population of 75,443 and metropolitan population of 148,749) and is nestled at the foot of the beautiful Black Hills. Mount Rushmore, 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 South Dakota Mines and Rapid City, visit: http://sdsmt.edu/The-Rushmore-Region/.

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 vacation and 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 January 15, 2020, and will continue until the position is filled. Employment is contingent upon completion of a satisfactory background investigation.

South Dakota Mines 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.

Attach a cover letter that includes statements of research interests and teaching philosophy; curriculum vita; and names, mailing and email addresses, and phone numbers for at least three professional references. Applicants must arrange to have at least three letters of recommendation sent electronically to Connie.Krosschell@sdsmt.edu. By providing these letters you agree that we may contact your references.