

**ASSISTANT PROFESSOR—SIGNAL AND IMAGE PROCESSING**  
**Electrical Engineering and Computer Science Department**  
**South Dakota State University**

The Department of [Electrical Engineering and Computer Science](#) at [South Dakota State University](#) invites applicants for a tenure-track faculty position in Electrical Engineering with emphasis in signal and image processing particularly with relation to remote sensing systems

**RESPONSIBILITIES:**

Teach undergraduate and graduate courses in electrical engineering, with emphasis in signal and image processing, establish a self-supporting research program in satellite and airborne image processing particularly with respect to radiometric calibration. Work with graduate and undergraduate students on existing remote sensing imaging research programs.

**MINIMUM QUALIFICATIONS:**

Ph.D. in Electrical Engineering or a closely related field, effective written, oral, and interpersonal skills.

**DESIRED QUALIFICATIONS:**

Teaching experience in (a) signal and image processing, (b) remote sensing engineering systems and radiometry, and (c) probability and stochastic processes. Candidates will have demonstrated the ability to: develop relevant curriculum materials; teach effectively in a classroom and laboratory setting; train the next generation of imaging and remote sensing engineers; contribute through research, teaching, and/or public engagement to the diversity and excellence of the learning experience.

Research experience in (a) airborne and satellite radiometric calibration and (b) remote sensing image processing. Desired experience includes, but is not limited to, radiometric characterization/calibration, spatial characterization/calibration, and remote sensing systems. Candidates will have demonstrated the ability to: establish and sustain independent research; produce scholarly publications in leading scientific journals; present at major conferences; work with the major funding agencies; maintain active proposal development; participate in and contribute to major professional societies; work in multi-disciplinary teams.

**SALARY:**

Commensurate with qualifications.

**UNIVERSITY/COMMUNITY:** SDSU is South Dakota's Land Grant institution and its largest institution of higher education with a current enrollment of over 13,000 students. The Electrical Engineering and Computer Science Department is committed to providing a rigorous, practical education, with focus on design experience and problem solving; conducting world-class research with a regional emphasis; and providing technical assistance to existing and emerging businesses, industry, and government. The Department offers BS, MS, and Ph.D. degrees in EE, has about 300 undergraduate and 90 graduate students, with external annual funding over \$4,000,000. SDSU is located in Brookings, South Dakota, a community of approximately 20,000 near the east central border of South Dakota on Interstate 29. The city has an excellent K-12 education system, is accessible to major medical facilities, has an active cultural and social environment, and has numerous lakes and parks within driving distance. It is 50 miles north of Sioux Falls, a city of approximately 150,000.

**APPLICATION DEADLINE:** Open until filled. Review process starts August 22, 2011.

**APPLICATION PROCESS:** SDSU accepts applications through an on-line employment site. To apply, visit: <https://yourfuture.sdbor.edu>, search by the position title, view the job announcement, and click on "apply for this posting." The system will guide you through the electronic application form. The employment site will also require the attachment of a cover letter, resume, and reference page. Please contact SDSU Human Resources at (605) 688-4128 if you require assistance with this process.