Assistant Professor – Geotechnical Engineering / Underground Construction & Tunneling
Department of Civil & Environmental Engineering
Center of Excellence in Underground Construction & Tunneling

The Department of Civil and Environmental Engineering (CEE) at Colorado School of Mines (Mines) invites applications for a tenure-track Assistant Professor position in the field of civil/geotechnical engineering with teaching and research expertise that can contribute to underground construction and tunneling (UC&T). Based on experience and contributions, exceptional candidates may be considered for appointment at the Associate Professor level. Mines is home to an active and diverse geotechnical engineering program. In addition to six geotechnical engineering faculty members in the Department of Civil & Environmental Engineering, faculty members in Geological Engineering and Mining Engineering also provide an extremely rich and diverse environment for pursuing collaborative teaching and research in geotechnical engineering.

Mines is home to a premier UC&T research and education program developed in partnership by the Department of Civil and Environmental Engineering, the Department of Geology and Geological Engineering, and the Department of Mining Engineering. In 2012, the Grewcock University Endowed Chair in Underground Construction and Tunneling was established and the UC&T Center of Excellence was formed. Mines developed interdisciplinary MS and PhD degrees specifically in UC&T to complement existing disciplinary MS and PhD degrees, as well as an undergraduate minor in UC&T. Mines offers more than a dozen UC&T-related courses each year and hosts a number of multi-day industry short courses. Mines is also home to world-class research facilities including the Earth Mechanics Institute and the Edgar Mine. The UC&T program is driven to maintain world-class academic and research programs. Industry oriented, the program educates students for technical and leadership roles in underground engineering applicable to both civil and mining purposes. Information about the UC&T program and its academic and research programs can be found at http://uct.mines.edu/.

Research conducted through the multidisciplinary Center of Excellence in UC&T brings together more than 30 faculty and students in civil, geological, and mining engineering, in addition to mechanical, electrical, computer science and geophysics. With a joint emphasis on fundamental breakthroughs in underground engineering combined with applied innovation for current practice, the Center partners with industry and federal/state/municipal agencies to advance its research efforts. Center faculty and students pursue innovative experimental, analytical and computational research using Mines’ world class laboratory facilities, as well as on numerous underground construction projects throughout the world. The wealth of unique UC&T educational offerings combined with a robust research program allows us to recruit the best and brightest students from across North America and the world.

With this search and complimentary faculty searches in Mining Engineering and in Geological Engineering, CSM aims to further build upon its world class multidisciplinary education and research infrastructure in UC&T. The goal of this faculty position search is to hire in an area of expertise that furthers the civil/geotechnical engineering contribution to UC&T and compliments the expertise and focus areas of mining engineering and geological engineering. Applicants with expertise in areas of civil/geotechnical engineering related to UC&T are encouraged to apply. Areas of particular interest include soft ground (soil and weak rock) tunnel design and construction, innovative materials (modified soils, grout, foams, slurries, etc.), ground improvement techniques, nondestructive evaluation and ground imaging, soil-structure interaction, geocomstruction process monitoring, instrumentation, data driven modeling and performance prediction.

Mines is an EEO/AA employer and is committed to enhancing the diversity of its campus community. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

Employment with Mines is contingent upon the satisfactory completion of a background investigation.
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Responsibilities: Teaching responsibilities will include undergraduate civil-geotechnical courses in the BS Civil Engineering degree Program, and graduate courses within the UC&T and CEE degree programs. The successful candidate will be expected to supervise graduate research and thesis projects, establish a quality publication record, and develop a strong externally funded research program. The successful candidate is expected to be a collegial and productive faculty member in CEE, and to participate fully and pursue leadership responsibility in the multidisciplinary Center of Excellence in UC&T in research and service activities. Research efforts should include both federal agency and industry supported projects.

Qualifications: The successful candidate must possess an earned PhD degree in an engineering discipline closely related to geotechnical engineering/underground construction and tunneling by the time of the appointment. Applications will be accepted at the Assistant Professor level only. Based on experience and contributions, exceptional candidates may be considered for appointment at the Associate Professor level. Background and expertise in UC&T as described above is desired. Strong interpersonal and communication skills are required as a commitment to excellence in research and teaching at both the undergraduate and graduate levels. Applicants demonstrate the potential to become and excellent teacher and scholar.

Compensation: Salary and benefits will be commensurate with qualifications and experience. CSM also provides an attractive benefits package including fully paid health insurance, dependent tuition benefits, parental leave policies and dependent care assistance through a flexible spending plan.

How to Apply: Applicants must submit (1) a letter of application, (2) a statement of teaching and research experience and interests, (3) a curriculum vitae, and (4) names and contact information for three professional references to: Colorado School of Mines, Human Resources Office, Search # 15-011350, 1500 Illinois Street, Golden, CO 80401, Fax: (303) 384-2025.

Electronic applications are encouraged and will be accepted at fsearch@mines.edu. If using this method of application, please put the search number 15-011350 (in bold) in the subject line to ensure that your materials are properly forwarded to the search committee.

Review of applications will begin by January 6, 2015 and will continue until the position is filled.

Mines encourages applications from qualified candidates who will contribute to the diversity and excellence of our academic community through their research, teaching, and service.

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