



CAL POLY

CIVIL AND ENVIRONMENTAL ENGINEERING

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STRUCTURAL ENGINEERING TENURE-TRACK FACULTY POSITIONS

Job number: 494397

Position type: Three tenure-track faculty positions at the Assistant Professor rank

Location: San Luis Obispo, CA

The Civil and Environmental Engineering Department at Cal Poly, San Luis Obispo invites applications for three full-time tenure-track faculty positions at the Assistant Professor rank in structural engineering. The anticipated start date is Fall 2020. Preferred areas of specialization are categorized under the three topics below, however, all applicants meeting the required qualifications will be considered.

Small Structures: new materials, modern construction methods, emerging technology in design/build including 3D construction printing (3DCP), and life cycle costs. Applications include: light frame structures, masonry, timber, tilt-up, prefabricated structures, cross laminated timber (CLT), and robotic fabrication.

Structural Engineering for Climate Change: loading impacts due to climate change, infrastructure resilience, risk and reliability in extreme events, sustainable materials/methods in modern structural engineering.

Bridge Engineering: areas of interest include (1) emphasis in existing bridge infrastructure including condition assessment, remote sensing/health monitoring, bridge rehabilitation/resilience, and modern technology applied to bridge engineering/construction materials/methods; (2) new bridge design/construction areas of interest include modern materials, smart infrastructure, resilience, and design for extreme events.

Responsibilities include, but are not limited to: (a) teaching undergraduate classes and laboratories in civil engineering and structural engineering as well as graduate courses in a specialization area; (b) supervising student research; (c) developing and maintaining externally-funded research; (d) maintaining and enhancing currency in modern industry practices; (e) engaging in service activities that improve the department, college, university, and/or wider practice.

REQUIRED QUALIFICATIONS

Candidates are required to have earned undergraduate and doctorate degrees in a field closely-related to structural engineering by the time of appointment. A commitment to teaching in an applied undergraduate/graduate engineering program is expected as well as a commitment to scholarship in their field of expertise. Demonstrated proficiency in written and oral use of the English language is required.

PREFERRED QUALIFICATIONS

Preference will be given to candidates with (1) professional licensure and industry/consulting experience; (2) prior scholarly publications; (3) previous experience writing and/or managing grants; (4) experience fostering a collaborative, supportive and inclusive environment.

HOW TO APPLY

For more information and to apply, please visit jobs.calpoly.edu and apply to Job **494397**. Applicants must provide the following supplemental documents: (1) a concise cover letter summarizing the applicant's qualifications and interest in the position; (2) a current curriculum vitae; (3) the names, addresses, telephone numbers, and email addresses of at least three professional references; (4) a statement of teaching philosophy and interests; (5) a statement of research interests; (6) a statement on diversity and inclusivity which supports the applicant's ability to foster a diverse and inclusive environment. Examples include but are not limited to implementing inclusive classroom environments, mentoring students with diverse backgrounds, outreach to under-represented student populations, implementing bias mitigation, and previous professional development in diversity and inclusion topics.

Finalists chosen to interview on-campus will be required to provide three letters of recommendation and official transcripts. Applicants are encouraged to submit materials by December 16, 2019 for full consideration; however, the positions will remain open until filled. For questions, please contact the Civil and Environmental Engineering Department at ceenve@calpoly.edu.

ABOUT CAL POLY

Civil and Environmental Engineering Department

The Civil and Environmental Engineering Department was officially formed in 1981, though transportation and environmental engineering degree programs had been in place at Cal Poly for some time. Since its inception, the department has continued to grow. Currently, there are approximately 650 undergraduate students enrolled in the Civil Engineering Degree Program and approximately 200 undergraduates in the Environmental Engineering Degree Program. In addition, the department supports about 50 graduate students who are working toward a Master of Science (M.S.) degree.

Both the Civil and Environmental Engineering Programs are accredited by the Engineering Accreditation Commission of ABET. The programs stress teamwork, communication, problem-solving, and state-of-the-practice analysis and design techniques. Each program is laboratory intensive, with hands-on student learning stressed in support of the University's "learn by doing" and teacher-scholar pedagogy.

Our faculty body is comprised of 22 tenured and tenure-track faculty with extensive academic and professional qualifications. The full-time faculty are supported by a number local engineering practitioners that support the department as adjunct faculty.

Nationally Ranked

Founded in 1901, Cal Poly is a nationally-ranked, four-year, comprehensive public university located in San Luis Obispo, halfway between San Francisco and Los Angeles on California's Central Coast. It is a distinctive learning community of 22,000 students offering a hands-on educational experience that prepares them for today's scientific and technical world. Cal Poly is the second largest land-holding university in California, second only to UC Berkeley, one of the largest land-holding universities in the nation. Cal Poly uses all of its land in active support of the education of its students.

Learn by Doing

Cal Poly is driven by its core philosophy of Learn by Doing – a powerful combination of academic expertise and hands-on experience. Most classes are taught by professors in small classrooms, not packed lecture halls, and from their first moments on campus, students are challenged to put what they learn into practice in a real-world setting.

The Community

Mission San Luis Obispo de Tolosa, the fifth of California's 21 Spanish missions, was founded by Father Junipero Serra in 1772. Over time, San Luis Obispo developed into an idyllic community of 45,000. People are drawn to SLO for many reasons - high quality of life, mild climate, artistic culture, educational opportunities, and proximity to the beach and mountains. Downtown SLO is a humming, pedestrian friendly zone of shops, restaurants and galleries in turn-of-the-20th century buildings. Thursday Night Farmers' Market brings a fiesta of produce, crafts, barbecue, street food and live entertainment to downtown. Over the past several years, San Luis Obispo's technology and innovation clusters along with traditionally strong industries such as design and construction, agriculture, tourism and health services have seen tremendous growth.

Cal Poly welcomes and encourages diversity. We seek applicants and nominations from those who have experience teaching, mentoring, and developing research in ways that effectively address individuals from historically underrepresented backgrounds. The University seeks to recruit and retain a diverse workforce as a reflection of our commitment to serve the people of California, to maintain the excellence of the University, and to offer our students richly varied disciplines, perspectives, and ways of knowing and learning.

Cal Poly is an affirmative action/equal opportunity employer.