Missouri S&T is seeking highly qualified, motivated faculty members in the signature area of Advanced Materials for Sustainable Infrastructure.

As part of a focused hiring campaign in this signature area, S&T invites applications for full-time, tenure-track faculty positions at the assistant and associate professor levels; however, outstanding applicants at the full professor level may be considered. The priority hiring areas for this cluster hire are:

- **Advanced Polymer Materials for Construction of Civil Infrastructure** — Areas of interest include synthesis, development and characterization of polymers, particularly those used for regulating the rheology and optimizing mechanical properties and durability of traditional and novel construction material systems.

- **Modeling and Design of Construction Materials for Infrastructure Applications** — Areas of interest include development and use of advanced computational tools (e.g. atomic- or molecular-scale and higher length scale computational models) to elucidate fundamental relationships between composition, structure, and macroscopic properties of construction materials and reinforcement.

- **Construction Automation and Robotics** — Areas of interest include all aspects of robotics as applied to civil construction automation from pre-fabrication of components to on-site assembly to repair and maintenance, real-time monitoring of construction processes, and automated inspection of constructed facilities.

Depending on the area of focus, candidates are expected to have a strong background in a number of the following areas: cement-admixture interaction, polymer chemistry, physical chemistry, automation in construction operations including inspection, multi-scale constitutive modeling of civil infrastructure systems, construction automation, and robotics.

Candidates should have a Ph.D. in chemistry, chemical engineering, polymer or materials science, mechanical engineering, civil engineering, or a closely related discipline, with research experience in the particular cluster area discipline. The successful candidate is expected to collaborate on interdisciplinary research with colleagues from science, engineering, and social science departments through the Center for Infrastructure Engineering Studies (http://cies.mst.edu) and to develop and sustain a strong externally funded research program. Candidates should have excellent communication skills and a commitment to excellence in teaching at all levels.

The appointment is anticipated to begin in fall 2018.