

The Department of Civil and Environmental Engineering and the Pratt School of Engineering at Duke University invite applicants for a tenure-track faculty position. We anticipate hiring at the Assistant Professor level, although truly exceptional candidates may be suitable at the Associate or Full Professor level. Applicants whose work bridges several research areas and who envision cross-departmental collaborations are particularly encouraged to apply.

Examples of areas of particular interest in this search include: Engineering of Critical Zone (CZ) defined by National Research Council as the surface zone of the Earth extending from the outer limits of vegetation down to soil and groundwater masses, within which all forms of life are supported and food is produced, but where also an intense engineering takes place. That includes engineered systems for grid and life-line underground and surface infrastructure, urban underground engineering, particularly as related to its adaptation to climate change and resulting developments in design and operation at the energy-water-climate nexus. We are interested both in theoretical and applied aspects of engineering that affect the CZ, specifically its sustainability under climate and anthropogenic pressures, like extraction and management of energy, water, and mineral resources. Of particular interest are coupled-processes (physico-chemical) in geo-mechanics with application to energy production, energy storage, waste storage/disposal (including CO₂ and nuclear wastes), and environmental protection; new or emerging materials with application to infrastructure and renewable energy and water resources and, transport phenomena including topics such as a) Slow flow systems, with particular emphasis on groundwater transport, b) Multiphase, bio- and geo-interface flows coupled with soil mechanics c) Transport related to public health and security such as pathogen and contaminant transport, as well as complete transport cycle of carbon, nitrogen and nutrients through deformable, drying/wetted soils and plants of the Critical Zone.

Candidates are expected to have a doctoral degree in: civil, environmental, mining or mechanical engineering, applied chemistry, or in similar areas. Once hired, the successful candidate will be expected to develop and teach courses at the undergraduate and graduate levels, to obtain competitive external funding, to establish a vibrant research program, and to contribute through service to the welfare of the department and to the promotion of their discipline. We seek faculty members committed to building a diverse and inclusive community that fosters excellence in research and teaching.

Applicants are asked to submit their materials electronically to: <http://www.cce.duke.edu/faculty-position/>

Applications received before November 15, 2016 will receive full consideration, but applications will

continue to be accepted until the position is filled. We expect to hire for the Fall 2017 semester. Questions regarding this search should be directed to Professor Tomasz Hueckel (hueckel@duke.edu), Search Committee Chair.

Duke University is an equal opportunity institution. Duke is committed to recruiting, hiring and promoting qualified underrepresented minorities, women, individuals with disabilities, and veterans. If you have a disability requiring reasonable accommodations during the application process, please contact Disability Management Systems at 919-684-8247.