Two Graduate Research Assistant (GRA) positions are available in Dr. Deng’s research group in the Department of Civil, Architectural, and Environmental Engineering, Missouri University of Science and Technology (formerly University of Missouri-Rolla). Anticipated start date is August 2015. Self-motivated, PhD and research-oriented MS students are encouraged to apply:

(1) One GRA is preferred with a geotechnical engineering background and/or interest. The GRA will investigate one of the following research topics: mechanics of biologically mediated soil, hydraulic fracturing for shale gas/enhanced geothermal systems, or seismic stimulation for enhanced oil recovery. The duties of the GRA will mainly focus on theoretical and numerical work. Candidates are sought with experiences in one or more of the following areas: contact mechanics, fracture mechanics, or seismic wave propagation. Strong programming ability is a big plus.

(2) Another GRA is preferred with a chemical/petroleum/mechanical/biological engineering background and/or interest. The GRA will investigate one of the following research topics: subsurface multiphase flow and solute transport related to energy recovery and environmental remediation, or biofilm growth in the soil and rock (e.g., the bioclogging or biocementation studies). The duties of the GRA will mainly focus on laboratory experimental and numerical work. Candidates with experiences in one or more of the following areas are highly encouraged to apply: microfluidics, confocal laser scanning microscopy, micro-capsules, refractive index matching, pore-network modeling, or Lattice-Boltzmann simulations.

If you are interested, please contact Dr. Wen Deng through email: wendeng@mst.edu by including your CV, personal statement, transcript and a cover letter.

The Department’s civil engineering program has been ranked consistently among the top 50 graduate civil engineering programs by USNEWS. The most recent ranking is 47 in 2013. The graduate enrollment is approximately 110 students. For more information here are some useful links:

Dr. Deng’s homepage: http://web.mst.edu/~dengwe/
Geotechnical Engineering: http://geotech.mst.edu/
Department of Civil, Arch., and Env. Engineering: http://care.mst.edu/
Missouri S&T Future Students: http://futurestudents.mst.edu
Missouri S&T: http://www.mst.edu/