



RESEARCH ENGINEER, RESEARCH PROFESSOR, POST-DOCTORAL FELLOW, POST-MASTERS FELLOW

We are seeking to hire a research professional (research engineer, research assistant professor, post-doctoral fellow, post MSc fellow) with experience and interest in applied/experimental soil behavior and experimental mechanics related to soil erosion, jetting erosion of soils, jet grouting, dredging mechanics, soil modification/ground improvement, soil drilling, fluid fracking of soils. Qualified applicants that lack these specific areas of experience yet have a strong background in experimental soil behavior/mechanics are encouraged to apply. Experience with embedded instrumentation, field testing, soil bed testing, etc., is also desired.

The position is scheduled to begin October 1, and is available for 15 months with possible extension and promotion. The position supports the advancement of ultra-rapid tunneling in the near surface. Such advancement can revolutionize subsurface transportation, and bring profound improvements to urban sustainability and resilience.

The successful candidate should have:

- A PhD or MSc in a related field (e.g., geotechnical engineering, soil mechanics, hydraulic engineering, soil physics, mechanical engineering, underground engineering, petroleum engineering). Preference will be given to applicants with doctoral degrees; however, MSc graduates with relevant knowledge and experience will be given careful consideration and are encouraged to apply.
- Experience in the conduct of detailed soil mechanics testing, preferably at larger scales than traditional benchtop labs, is desired.
- Experience with the topics described above.
- The ability to work effectively as part of a multi-disciplinary team, plus the motivation and discipline to carry out self-directed research.
- Ability to work independently and to mentor a student or two.

The selected fellows will work with Professor Mike Mooney in Civil-Geotechnical Engineering, and will interact with numerous faculty and students across geophysics, statistical sciences, civil, chemical, mechanical and petroleum engineering.

To be considered for this position, please send a detailed CV, a cover email detailing research experience and how it will qualify you for this opportunity, and contact information for three professional references to Professor Mike Mooney (mooney@mines.edu). Review of applications will begin no later than Sept 10, 2019 and will continue until the position is filled. Please feel free to contact Professor Mooney for more information.