POST-DOCTORAL FELLOW

We are currently accepting applications for a Post-Doctoral Fellow in the area of subsurface data science/engineering at Colorado School of Mines to participate in a National Science Foundation research project. The full time fellowship position is initially one year and can be extended to two years. The position will begin Sept 1 (or sooner if available).

Our research efforts focus on advancing knowledge through the intelligent fusion of geophysical, geological, geotechnical and in-situ monitoring data; the application of geostatistics to capture spatial variability; and the development of data-driven modeling and prediction techniques, including machine learning methods, to elucidate and potentially decrease spatial uncertainty. We work with rich multi-physics data sets from a number of earth dam and subsurface projects, including international sites with our PIRE collaborators.

The successful candidate will meet the following criteria:
1. A PhD in a related field (engineering, geophysics, applied math or statistics, computer science, operations research, etc.).
2. Experience designing and implementing state-of-the-art data analysis methodologies on large scale data.
3. The ability to work effectively as part of a multi-disciplinary team, plus the motivation and discipline to carry out autonomous research.
4. A record of science innovation and creativity.
5. A record of excellent written and oral communication skills.

Prior experience with the following is a plus but not necessary:
- utilizing high performance computing and/or cloud vendors
- geotechnical or other subsurface data and modeling.

The selected fellow will work with Professors Whitney Trainor-Guitton in Geophysics and Mike Mooney in Civil-Geotechnics Engineering, and will interact with numerous students across geophysics, statistical sciences, civil and geological engineering, and computer science. The selected fellow will also collaborate with our NSF grant colleagues in the Netherlands, including participating in research meetings abroad.

To be considered for this position, please send a detailed CV, a cover email detailing your research experience and how it will qualifies you for this opportunity, 1-3 recent publications and contact information for three professional references to Professors Whitney Trainor-Guitton (wtrainer@mines.edu) and Mike Mooney (mooney@mines.edu). The review of applications will begin no later than Aug 1, 2017 and will continue until the fellowship position is filled. Please feel free to contact Whitney or Mike for more information.