

Two post-doc positions
School of Earth, Energy and Environmental Sciences
Stanford University USA

Keywords: Uncertainty Quantification, Geostatistics, Geophysics, Natural Resources

Project description: Implicit dynamic uncertainty quantification in subsurface systems

We are seeking qualified post-doctoral candidates to work on a large industrial project involving uncertainty & risk quantification for mineral deposits. This work is likely to have implications for other geological resources such as oil/gas, groundwater etc. In this project we will develop, in collaboration with Stanford Computer Science and a large mining company, a new way of uncertainty quantification using an implicit dynamic model. The candidate is expected to have a combination of some of the following skills: computer programming or computational geosciences, knowledge of modern software development, data scientific methods, in particular geostatistics. Some background in mining, oil & gas resources or groundwater management are also considered. The candidates will be expected to work in a group of post-doc and PhD students, to interact with the mining company as well as other faculty at Stanford. Candidate should be self-driven, with strong written and verbal communication skills, and will be expected to make presentations to sponsor committees. Travel outside US may be required.

This position can be for up to 2.5 years. Qualified candidates should submit their resume to jcaers@stanford.edu together with a statement of purpose. Positions can be filled ASAP.

Faculty Advisors:

Jef Caers, Professor of Geological Sciences,

Tapan Mukerji, Professor of Energy Resources Engineering