



서울대학교
SEOUL NATIONAL UNIVERSITY

Postdoc/PhD studentship in Coupled Hydromechanics of Rock

A postdoctoral position (or a PhD studentship) is available immediately at the Rock Mechanics Group at Seoul National University. The postdoc position is for 1 year, with the possibility for further extension; the PhD studentship is for 4 to 5 years, including 2 years of coursework. The position is open to both international and Korean applicants.

The position will be funded by the first Korean Enhanced Geothermal System (EGS) project supported by the Department of Knowledge and Economy. The goal of this project is to drill a double borehole of 5 km depth and produce approximately 1.5 MW of power by hydraulically stimulating the geothermal reservoir between two boreholes.

The postdoc (or PhD student) will be expected to work closely with assistant professor Ki-Bok Min as well as other graduate students. The research focuses on the hydraulic stimulation of a fractured geothermal reservoir using numerical simulations based on the discrete element and/or boundary element method. The possibility will likely exist to work with other ongoing projects related to CO₂ storage leakage analyses and the geological repository of nuclear waste, all in line with coupled hydromechanics in underground rock.

The Rock Mechanics Group at Seoul National University (<http://rockeng.snu.ac.kr>) comprises 3 faculty members and more than 20 full-time graduate students. Seoul National University is a leading research university in Korea that hosts an increasing number of international scholars on its splendid campus at the foot of Kwanak Mountain in Seoul. Graduate courses can be given in English.

Key qualifications include:

- Recent PhD in rock mechanics, hydrogeology, civil engineering, petroleum engineering, or a related field (for postdoc);
- Solid background in rock mechanics, subsurface flow, and numerical modeling;

- Ability to work with a team of graduate students and scientists as well as to author peer-reviewed publications; and
- Ability to work independently to identify and solve problems.

Interested applicants should email the following to assistant professor Ki-Bok Min (kbmin@snu.ac.kr):

- A CV that includes the names and contact information for 3 referees; and
- A concise description (no more than 2 pages) outlining specific research interests.

Applications will be accepted until the position is filled. Inquiries about this position are welcome.

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