



PhD position in rock mechanics - SO IV-37/19

About the position

The PhD position is related to a basic research in rock burst in underground hard rock excavation.

The position reports to the department leader.

Job description

- The candidate for this position will study the the fundamentals of rock burst and develop theoretical models based on laboratory tests, theoretical analyses and numerical modelling.
- The objective of the project is to reveal the relationships of rock burst with mineralogy, petrology and fracturing process as well as energy transformations during the occurrence of a burst event.

Qualification requirements

PhD candidate:

The applicants for the PhD position must have a master's degree or second degree (equivalent to 120 credits) with a strong academic background in rock mechanics and engineering geology or equivalent education with a grade of B or better in terms of [NTNU's grading scale](#). Applicants with no letter grades from previous studies must have an equally good academic foundation. Applicants who are unable to meet these criteria may be considered only if they can document that they are particularly suitable candidates for education leading to a PhD degree. We will not consider candidates with a Ph.D. degree for the PhD position. We require a solid background in mechanics, dynamics, experimental skills and numerical modelling. Preference will be given to candidates with a scientifically documented background in topics of rock fracture, rock material properties and dynamics analysis.

The position requires spoken and written fluency in the English language. Such evidence might be represented by the results of standard tests such as TOEFL, IELTS, Cambridge Certificate in Advanced English (CAE) or Cambridge Certificate of Proficiency in English (CPE). The candidate's language skills might also be assessed in a personal interview.

The appointment is to be made in accordance with the regulations in force concerning State Employees and Civil Servants and [national guidelines for appointment as PhD, postdoctor and research assistant](#).

Personal characteristics

- The candidate should be co-operative and actively contribute in teams.
- Personal skills like a positive and friendly attitude, and contributing to a sustainable social environment will also be valued.

In the evaluation of which candidate is best qualified, emphasis will be placed on education, experience and personal suitability, in terms of the qualification requirements specified in the advertisement.

We offer

- exciting and stimulating tasks in a strong international academic environment
- an open and [inclusive work environment](#) with dedicated colleagues
- favourable terms in the [Norwegian Public Service Pension Fund](#)
- [employee benefits](#)

Salary and conditions

PhD candidate:

PhD candidates are remunerated in code 1017, and are normally remunerated at gross from NOK 449 400 before tax per year. From the salary, 2 % is deducted as a contribution to the Norwegian Public Service Pension Fund.

The period of employment is 3 years with the possibility of up to one year extension with 25% teaching duties in agreement with the department. Appointment to a PhD position requires admission to the PhD programme in engineering (<https://www.ntnu.edu/iv/doctoral-programme>).

As a PhD candidate, you undertake to participate in an organized PhD programme during the employment period. A condition of appointment is that you are in fact qualified for admission to the PhD programme within three months.

Appointment takes place on the terms that apply to State employees at any time, and after the appointment you must assume that there may be changes in the area of work.

General information

[Working at NTNU](#)

A good work environment is characterized by diversity. We encourage qualified candidates to apply, regardless of their gender, functional capacity or cultural background. Under the Freedom of Information Act (offentleglova), information about the applicant may be made public even if the applicant has requested not to have their name entered on the list of applicants.

Questions about the position can be directed to Professor Charlie Li, phone number +47 986 30 706, e-mail charlie.c.li@ntnu.no.

About the application:

Publications (max. 5) and other academic works that the applicant would like to be considered in the evaluation must accompany the application. Joint works will be considered. If it is difficult to identify the individual applicant's contribution to joint works, the applicant must include a brief description of his or her contribution. Applicants who have their educational background from China, must provide verification through CHSI.

Please submit your application electronically via jobbno.no with your CV, diplomas and certificates. Please refer to the application number SO IV-37/19 when applying.

Application deadline: 23.01.2019.

NTNU - knowledge for a better world

NTNU - knowledge for a better world

The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.

Department of Geoscience and Petroleum

We conduct teaching and research related to management of Earth's geological resources. Norway's rich resources of wind, water, oil, gas and minerals have been and are essential to the country's prosperity, and will continue to be in the future. The Department plays a key role in the development of technology and the education of graduates who enable value creation based on our natural resources. [The Department of Geoscience and Petroleum](#) is one of eight departments in the [Faculty of Engineering](#).

Jobbno-ID: 162412, Søknadsfrist: Søknadsfristen er gått ut