

**Jobbnorge-ID:** 108042

**Søknadsfrist:** Avsluttet

**Nettside:**

**Omfang:**

**Varighet:**

## Two PhD positions in electrochemistry

Two PhD positions are available at the Department of Materials Science and Engineering. The appointments have durations of 3 years with the possibility of until 1 year extension with 25% teaching duties in agreement with the department. (To undertake the teaching duties it is a requirement that the candidate speaks Norwegian or another Scandinavian language). The positions are financed by the Research Council of Norway and are part of the research project SUPREME.

### Job description

Two PhD candidates will be hired on the research project SUPREME, which is a competence project related to studies of possibilities for energy savings in electrolysis processes for production of metals. The project is supported by the Research Council of Norway and electrochemical industrial companies. The research is carried out by NTNU and SINTEF. One PhD project will be related to studies of electrochemical deposition of nickel and zinc from aqueous chloride and sulfate electrolytes. Fundamental issues will be investigated by using modern electrochemical techniques in controlled laboratory studies. The other PhD project will be related to the development of thermoelectric cells based on molten salt electrolytes and symmetrical gas electrodes. Controlled experiments will be carried out in laboratory cells.

### Qualifications

The applicants must have an MSc in chemistry and basic knowledge of electrochemistry.

The successful candidates should be creative, with a strong ability to work problem oriented. He/she should also enjoy interdisciplinary research and take keen interest in learning and working in teams.

The regulations for PhD programmes at NTNU state that a Master degree or equivalent with at least 5 years of studies and an average grade of A or B within a scale of A-E for passing grades (A best) for the two last years of the MSc is required and C or higher of the BSc. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study and grade system and the rights for further studies associated with the obtained degree:

[http://ec.europa.eu/education/tools/diploma-supplement\\_en.htm](http://ec.europa.eu/education/tools/diploma-supplement_en.htm)

Detailed information on our PhD programs is found at: <http://www.ntnu.edu/nt/research/phd>

The positions require spoken and written fluency in the English language. Applicants from non-English-speaking countries outside Europe must document English skills by an approved test.

### Terms of employment

The appointment of the PhD fellows will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees. Applicants must agree to participate in organized doctoral study programs within the period of the appointment and have to be qualified for the PhD-study.

NTNU's personnel policy objective is that the staff must reflect the composition of the population to the greatest possible extent.

The position as PhD is remunerated according to the Norwegian State salary scale. There is a 2% deduction for superannuation contribution.

Further information can be obtained from professor Geir Martin Haarberg, Department of Materials Science and Engineering, NTNU, Tel. +47 73594036, E-mail: [geir.martin.haarberg@ntnu.no](mailto:geir.martin.haarberg@ntnu.no)

Further information is available at: <http://www.ntnu.no/materialteknologi/english>

### The application

Applications with CV, certificates from both Bachelor and Master, possible publications and other scientific works, copies of transcripts, (copies of documentation on English language proficiency test) and reference letters should be submitted.

Applications must be submitted electronically through this page.

**Applications submitted elsewhere will not be considered.**

The reference number of the position is: **NT- 87/14**

Application deadline: 18. January 2015

## Tilleggsinformasjon

**Arbeidssted:**