**NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**Faculty of Natural Sciences and Technology - Department of Materials Science and Engineering**

**PhD RESEARCH FELLOW IN MATERIALS SCIENCE – FUNCTIONAL COMPOSITE MATERIALS FOR HIGH VOLTAGE APPLICATIONS**

A PhD research fellowship in the field of functional composite materials for high voltage applicationsis available. The aim of this PhD project is to develop tailorable field grading materials based on polymer-inorganic composites. The project is in close collaboration with SINTEF Energy Research and funded by The Research Council of Norway as a strategic initiative to strengthen SINTEFs involvement in PhD training. The candidate is likely to participate in scientific discussions with NTNUs and SINTEFs industry partners during the course of the work. Upon completion of the PhD degree, the candidate is expected to be well qualified for a career in both academic and industrial research.

The candidate should hold a university degree (Master of Science or equivalent) in materials chemistry or physics, materials science and engineering, electrical engineering, or equivalent. We search for candidates with background in synthesis and development of polymeric-inorganic or hybrid materials and materials characterization and testing (i.e. X-ray diffraction, electron microscopy, electrical measurements including dielectric permittivity and dielectric breakdown strength as well as ageing phenomena). We search a person that is creative, innovative, can work independently and in a cross-disciplinary environment. The person we are searching for has good communication skills and is able to collaborate with other PhD candidates and researchers in the fields of high voltage engineering as well as composite materials.

Detailed information on our PhD programs can be found at: <http://www.ntnu.no/nt/english/phd>

The regulations for PhD programs at NTNU state that the applicant must have a master's 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) and C or better on 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/policies/rec_qual/recognition/diploma_en.html>

Applicants must agree to participate in organized doctoral study programs within the period of the appointment. A contract will be drawn up regarding the period of appointment and work related duties.

The appointment of the PhD will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees. All applicants must be able to communicate fluently in English (in speaking and writing). For non-Scandinavian candidates, knowledge of, or willingness to learn, Norwegian or another Scandinavian language is considered an advantage, but is not a requirement. PhD scholarship recipients are employed for three years in the position. The position as PhD is remunerated according to the Norwegian State salary scale. There is a 2% deduction for superannuation contribution. It is acceptable to start in the position in August 2017 (but preferably not later).

For more information about the position please contact: Professor Mari-Ann Einarsrud, e-mail: [mari-ann.einarsrud@ntnu.no](mailto:mari-ann.einarsrud@ntnu.no), Dr. Julia Glaum, e-mail: Julia.Glaum@ntnu.no or Research Scientist Dr. Jostein Bø Fløystad, e-mail: jostein.floystad@sintef.no.

Information about the NTNU department and the NTNU research group can be found online:

<http://www.ntnu.no/materialteknologi/english>

<http://www.ntnu.edu/mse/research/ceramics/>

Information about the group at SINTEF Energy Research can be found at: http://www.sintef.no/en/renewable-energy/electric-power-components/

The application should contain:

* CV including certificates from Bachelor and Master as well as Reference letters.
* List of publications with bibliographical references.
* Documentation of English language proficiency (e.g. TOEFL, IELTS, etc.) if English or a Scandinavian language is not the applicant's mother tongue.
* A statement on when the applicant can start in the position if selected.

Applications must be submitted electronically through [www.jobbnorge.no](http://www.jobbnorge.no). Applications submitted elsewhere will not be considered.

Mark the application with ref.no NT-93 /16.

Application deadline is December 10, 2016.