

Jobbnorge-ID: 107386

Søknadsfrist: Avsluttet

Nettside:

Omfang:

Varighet:

Postdoctoral fellow in «Power system reliability management»

The Faculty of Information Technology, Mathematics and Electrical Engineering, <http://www.ntnu.edu/ime> at the Norwegian University of Science and Technology (NTNU) has a vacancy for a 100% position as a postdoctoral fellow at Department of Electric Power Engineering <http://www.ntnu.edu/elkraft>

The appointment is for a term of two years. The position of postdoctoral fellow is a fixed-term position with the primary objective of qualifying for work in top academic posts.

Information about the department

Currently there are 13 professors and 2 associate professors at the department. In addition there are 6 adjunct associate professors, 4 postdoctoral researchers, approx. 40 active PhD students, and 15 technical/administrative staff. Research activities are organized into three groups; Energy conversion, Electric power technology and Power systems.

The department has a wide range of teaching responsibilities, ranging from fundamental education in electric power engineering for other engineering students, Master's programs in Energy and Environment, International MSc programs within Electric Power Engineering and Wind Energy, as well as PhD education and continuing education.

Background

Reliability is one of the most important factors to consider in operation as well as in planning of power systems. Power system reliability management aims to meet a reliability criterion, while minimizing the socio-economic costs of doing so.

Historically in Europe, network reliability management has been relying on the so-called "N-1" criterion. Today, the increasing uncertainty of generation due to intermittent energy sources, combined with the opportunities provided e.g. by demand-side management and energy storage, call for proposing new reliability criteria with a better balance between reliability and costs.

The postdoctoral fellow will be part of a team within the EU-project GARPUR (<http://www.garpur-project.eu/>).

Work description

The aim of the GARPUR project is to design, develop, assess and evaluate new reliability criteria to be progressively implemented over the next decades at a pan-European level. The objective for the Post Doc position is to contribute to this development, where she or he will be working on the implementation, demonstration and testing of new reliability indicators to be used in the operational context.

Qualifications

The candidate should have experience and publications within the core topic of this project: power system operation and control, and related to security and reliability analysis.

Skills and experience in programming and use of power system analysis tools will be emphasized, as well as good skills in communication and co-operation.

Requirements

A requirement is a Norwegian doctoral degree in the subject area concerned or a corresponding doctoral degree from a country outside Norway recognized as equivalent to a Norwegian doctoral degree or competence at a corresponding level documented by academic work of the same scope and quality.

Applicants who do not master a Scandinavian language must provide evidence of good English language skills, written and spoken. The following tests can be used as such documentation: TOEFL, IELTS and Cambridge Certificate in Advanced English (CAE) or Cambridge Certificate of Proficiency in English (CPE). Minimum scores are:

- TOEFL: 600 (paper-based test), 92 (Internet-based test)
- IELTS: 6.5, with no section lower than 5.5 (only Academic IELTS test accepted)
- CAE/CPE: grade B or A.

We can offer

- an informal and friendly workplace with dedicated colleagues
- academic challenges
- attractive schemes for home loans, insurance and pensions in the Norwegian Public Service Pension Fund

For further information about the position, please contact Kjetil Uhlen, Kjetil.Uhlen@ntnu.no Phone: (+47 73597204)

Salary conditions

The position is in code 1352 Post doctor, salary grade 57-72 in the Norwegian State salary scale, gross NOK 473 100 - 626 800 per year, depending on qualifications. A deduction of 2% is made as a statutory contribution to the Norwegian Public Service Pension Fund.

General

The appointment is subject to the conditions in effect at any time for employees in the public sector.

The Faculty of Information Technology, Mathematics and Electrical Engineering wants to attract outstanding and creative candidates who can contribute to our ongoing research activities. We believe that diversity is important to achieve a good, inclusive working environment. We encourage all qualified candidates to apply, regardless of the gender, disability or cultural background.

Under Section 25 of the Freedom of Information Act, information about the applicant may be made public even if the applicant has requested not to have his or her name entered on the list of applicants.

The application with a CV and certified copies of diplomas and certificates must be sent electronically via this page (jobbnorge.no) with information about education, scientific experience including a list of relevant publications (including a brief description of your contribution if this is not obvious) and other relevant work experience (all in one combined PDF file). Mark the application **IME-051-2014**.

Deadline for applications: 08.12.2014

Tilleggsinformasjon

Arbeidssted: