

Jobbnorge-ID: 115028

Søknadsfrist: Avsluttet

Nettside:

Omfang:

Varighet:

PhD Research Fellowship position in Secure Networking Technologies

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 position as a PhD candidate, 100% position, at Department of Telematics <http://www.item.ntnu.no>.

Information about the department

Telematics is the area of communication networks and networked services, encompassing technological, societal and economical aspects.

The Department of Telematics currently has 16 professors or associate professors, 11 adjunct professors or associate professors, 2 postdoctoral researchers and about 30 PhD students.

The Department of Telematics performs research and research-based education at a very high international level. The department is to be the leading research group in the telematics/networking field in Norway, and also have a leading position in Europe in chosen disciplines within its research areas.

The appointment is for a term of 3 years without teaching assistance and up to 4 years including 25% of teaching assistance. This is a researcher training position aimed at providing promising researcher recruits the opportunity of academic development in the form of a doctoral degree.

Work description

The researcher will work on a project entitled "Securing emerging network technologies with homomorphic encryption". The overall aim of the project is to design methods for secure processing of network data in emerging networks using practical variants of homomorphic encryption. Recent advances in cryptography will be applied to secure the virtualization of the ICT infrastructure (such as "cloud" processing and storage) and new flexible networking technologies such as software defined networks (SDN) and network function virtualization (NFV). Work tasks will include: analysis of suitable network functions for homomorphic processing; analysis of practical homomorphic encryption algorithms; secure protocol design and analysis; and experimental implementations.

Qualifications

A master's degree in telematics, computer science or related areas, with very good results, is required - average grade B or better, or education at the equivalent level. Great importance will be attached to personal suitability. Students who will complete a Masters degree by 31.07.2015 will also be considered. A background including experience with modern networking technologies and applied cryptography is desirable.

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 or 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.

Formal regulations

Appointments are made in accordance with the regulations in force regarding terms of employment for PhD candidates issued by the Ministry of Education and Research, with relevant parts of the additional guidelines for appointment as a PhD candidate at NTNU. Applicants must undertake to participate in an organized PhD programme of study during their period of employment. The person who is appointed must comply with the conditions that apply at any time to employees in the public sector. In addition, a contract will be signed regarding the period of employment.

Applicants must be qualified for admission as PhD students at NTNU. See <http://www.ime.ntnu.no/forskning/phd> for information about PhD studies at NTNU. Together with the application, include a description of the research work that is planned for completion during the period of the grant.

Salary conditions

The position follows code 1017, salary grade 50 - 62 in the Norwegian State salary scale, normally in salary grade 50, gross NOK 430.200 - 529.500 per year, depending on qualifications. A deduction of 2% is made as a statutory contribution to the Norwegian Public Service Pension Fund.

General

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

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.

For further information about the position, please contact Prof Colin Boyd, +47 73551758, colin.boyd@item.ntnu.no.

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

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 with information about education and relevant experience (all in one combined PDF file). Mark the application IME-036-2015.

Deadline for applications: 16.08.2015

Tilleggsinformasjon

Arbeidssted: