PhD Research Fellow in Cyber Security for IoT and 5G

Job description

A position as PhD Research Fellow in Cyber Security for IoT and 5G is available at the Department of Informatics, University of Oslo.

The fellowship period is 3 years devoted to research education. Candidates may be offered one additional year by the Department of Informatics; the 4 years position then entails a compulsory work load of 25% that consists of teaching, supervision duties, and research assistance.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo. Starting date no later than 01.10.2020.

More about the position

The PhD project will focus on cyber-security solutions for IoT and 5G architectures. Application areas can e.g. be e-Health, autonomous driving, industrial control systems and smart homes. Solutions to be investigated can e.g. involve security protocol and architecture design using applied cryptography, cyber threat detection based on AI (Artificial Intelligence) and ML (Machine Learning), and methods for threat modelling and risk analysis. Project tasks will typically involve theoretical modelling, development of prototype software tools, analysis and experimentation, report writing, as well as some project management.

The fellowship position is located at the Department of Informatics, and specifically in the Group for Digital Security.

The PhD fellow will work in the context of the Digital-Security Group’s current research projects and networks in cyber security, which are described on the Group web pages.

Only candidates from European countries and NATO countries may apply for this position. The reason for this is that cyber security research may involve collaboration with defense and national security organizations where security clearance may be needed.

Qualification requirements

The Faculty of Mathematics and Natural Sciences has a strategic ambition to be among Europe’s leading communities for research, education and innovation. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

Applicants must hold a Master’s degree or equivalent in one or several of the following disciplines: Informatics, Computer Science, (Mobile) Communication Technology, Information Security, Data Science or Artificial Intelligence.

Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system.

The candidate must be able to express herself/himself very well in English, both in writing and orally. It is expected that the candidate will be able to work independently and within a relatively short time in the position will be able to take the initiative to make contacts and to collaborate with the national and international research community.*

Candidates without a Master’s degree have until 30 June, 2020 to complete the final exam.

Grade requirements:

The norm is as follows:

- the average grade point for courses included in the Bachelor’s degree must be C or better in the Norwegian educational system
- the average grade point for courses included in the Master’s degree must be B or better in the Norwegian educational system
- the Master’s thesis must have the grade B or better in the Norwegian educational system
- Fluent oral and written communication skills in English.
- English requirements for applicants from outside of EU/EEA countries

The purpose of the fellowship is research training leading to the successful completion of a PhD degree.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position. For more information see:

http://www.uio.no/english/research/phd/
http://www.mn.uio.no/english/research/phd/

We offer
• Salary NOK 479 600 - 523 200 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017)
• Attractive welfare benefits and a generous pension agreement
• Vibrant international academic environment
• Career development programmes
• Oslo’s family-friendly surroundings with their rich opportunities for culture and outdoor activities

How to apply

The application must include

• Cover letter, including a one page statement of motivation and research interests indicating why the indicated PhD topic fits their interest and background.
• CV (summarizing education, positions and academic work - scientific publications)
• Copies of the original Bachelor and Master’s degree diploma, transcripts of records and letters of recommendation
• Documentation of English proficiency
• List of publications and academic work that the applicant wishes to be considered by the evaluation committee
• Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

The application with attachments must be delivered in our electronic recruiting system, please follow the link “apply for this job”. Foreign applicants are advised to attach an explanation of their University’s grading system. Please note that all documents should be in English (or a Scandinavian language).

Applicants may be called in for an interview.

Formal regulations

Please see the guidelines and regulations for appointments to Research Fellowships at the University of Oslo.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo.

According to the Norwegian Freedom of Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The University of Oslo has an agreement for all employees, aiming to secure rights to research results etc.

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

Contact information

For enquiries about this position please contact: Prof. Audun Jøsang, phone: +47 22845524, e-mail: josang@ifi.uio.no, or A.Prof. Nils Gruschka, phone: +47 22840858, e-mail: nilsgrus@ifi.uio.no.

For questions regarding the recruitment system, please contact HR Adviser Torunn Ståndal Guttormsen, phone:+47 22854272, e-mail:t.s.guttormsen@mn.uio.no

About the University of Oslo

The University of Oslo is Norway’s oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The Department of Informatics (IFI) is one of nine departments belonging to the Faculty of Mathematics and Natural Sciences. IFI is Norway’s largest university department for general education and research in Computer Science and related topics.

The Department has more than 1800 students on bachelor level, 600 master students, and over 240 PhDs and postdocs. The overall staff of the Department is close to 370 employees, about 280 of these in full time positions. The full time tenured academic staff is 75, mostly Full/Associate Professors..

Jobbnorge-ID: 182264, Søknadsfrist: 29. februar 2020