



# UNIVERSITETET I OSLO

**Jobbnorge ID:** 294503  
**Deadline:** 3/1/2026  
**Website:** <http://www.uio.no/>  
**Scope:** Fulltime  
**Duration:** Engagement

## PhD Research Fellow in Cybersecurity for Critical Infrastructures

### About the position

Position as PhD Research Fellow in Cybersecurity for Critical Infrastructures available at Department of Informatics.

The fellowship period is three years.

Depending on the candidate and the teaching needs of the department, the fellowship period can be extended either for compulsory work consisting of e.g., teaching and supervision duties and research assistance up to four years.

Starting date no later than October 1, 2026.

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

Place of work is Department of Informatics at Blindern, Oslo.

### Job description

The PhD project focuses on security analysis of critical infrastructures with an emphasis on communication networks and system components. The research will involve studying and modelling the different components of selected critical infrastructures such as energy, industrial control, and petroleum systems. It will also involve analyzing commonly used network- and Operational Technology (OT) protocols in critical infrastructure environments.

The candidate will develop attack scripts and testing scenarios to assess system vulnerabilities in a controlled and ethical manner, and design and evaluate detection capabilities, including intrusion detection mechanisms, to identify and mitigate cyber threats. The overall goal is to contribute to improved security, resilience, and situational awareness in critical infrastructure systems.

The fellowship position is located at the Department of Informatics, and specifically in the Digital Security research group. The Digital Security research group currently has 12 full- and part-time faculty members and several postdoctoral researchers and PhD students. The research group conducts research in various areas of information and cyber security, focusing on fundamental aspects as well as on applications in multi-disciplinary contexts. We work in collaboration with leading national and international research partners from both academia and industry. Current research topics include identity management, cyber threat intelligence, AI applied to cyber security, ethical hacking, and privacy and data protection. For more information about the Digital Security Research Group, see <https://www.mn.uio.no/ifi/english/research/groups/sec/>

### What skills are important in this role?

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.

#### Required qualifications:

- Master's degree or equivalent in Informatics or Mathematics
- Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system
- Prior education (e.g. courses during Bachelor's or Master's studies) in cybersecurity, network security or system security
- Fluent oral and written communication skills in English

Candidates without a master's degree have until June 30, 2026 to complete the final exam.

#### Desired qualifications:

- Programming or technical skills relevant to the project (e.g., Python, C/C++, net-work tools, or security frameworks)
- Knowledge of ethical hacking and penetration testing techniques
- Knowledge of Intrusion Detection Systems (IDS); experience with Splunk is an advantage
- Familiarity with critical infrastructure domains, such as energy systems, industrial control systems (ICS/SCADA), or the petroleum domain
- Experience with Linux-based systems and networking concepts
- Experience with cyber-physical systems, industrial networks, or operational technology (OT)

#### Language requirement:

- Good oral and written communication skills in English

- English requirements for applicants from outside of EU/ EEA countries and exemptions from the requirements: <https://www.mn.uio.no/english/research/phd/regulations/regulations.html#toc8>

#### **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

The purpose of the fellowship is research training leading to the successful completion of a PhD degree. For more information see: <http://www.mn.uio.no/english/research/phd/>

All candidates and projects will have to undergo a check versus national export, sanctions and security regulations. Candidates may be excluded based on these checks. Primary checkpoints are the Export Control regulation, the Sanctions regulation, and the national security regulation.

## **What are we looking for in you?**

### **Personal skills:**

- Ability to work both independently and as part of a team
- Ability to work precise in a structured manner and swiftly adapts to new task
- Good communication and collaboration skills
- Positive attitude and the ability to handle hectic periods
- You are a person who prefers being present at work and actively contributes to the professional and social environment you are a part of

Employment in the position is based on a comprehensive assessment of all qualification requirements applicable to the position, including personal qualifications.

## **We can offer you**

- A pleasant and stimulating work environment
- Good [welfare schemes](#)
- Opportunity of up to 1.5 hours a week of [exercise during working hours](#)
- A workplace with good development and career opportunities
- [Career development programmes](#)
- Membership in the [Statens Pensjonskasse](#), which is one of Norway's best pension schemes with beneficial mortgages and good insurance schemes
- Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities
- Salary in position as PhD Research Fellow, position code 1017 in salary range NOK from 550 800 - 595 000, depending on competence and experience. From the salary, 2 percent is deducted in statutory contributions to the State Pension Fund

## **We need different perspectives in our work**

UiO is an open and internationally oriented comprehensive university that strives to be an inclusive and diverse workplace and academic environment. You can read more about UiO's work on equality, inclusion, and diversity at [uio.no](http://uio.no).

We fulfill our mission most effectively when we draw upon our variety of experiences, backgrounds, and perspectives. We are looking for great colleagues, could you be the next one?

We will do our best to accommodate your needs. Relevant adjustments may include modifications to working hours, task adaptations, digital, technical, or physical adjustments, or other practical measures.

If you have an [immigrant background, a disability, or CV gaps](#) (Norwegian), we encourage you to indicate this in the job application portal. We always invite at least one qualified candidate from each group for an interview. In this context, disability is defined as an applicant who identifies as having a disability that requires workplace or employment-related accommodations. For more details about the requirements, please refer to the [Employer portal](#) (Norwegian).

The selections made in the job application portal are used for anonymized statistics that all state employers include in their annual reports. More information about gender equality initiatives at UiO can be found [here](#).

We hope you will apply for the position with us.

## **How to apply**

### **The application must include:**

- Cover letter - statement of motivation and research interests
- CV (summarizing education, positions and academic work - scientific publications)
- Copies of the original Bachelor and Master's degree diploma and transcripts of records
- Documentation of English proficiency if applicable
- 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)

Application with attachments must be submitted via our recruitment system Jobbnorge, click "Apply for this job". Foreign applicants should attach an official explanation of their University's grading system.

When applying for the position, we ask you to retrieve your education results from [Vitnemålsportalen.no](https://vitnemalsportalen.no). If your education results are not available through Vitnemålsportalen, we ask you to upload copies of your transcripts or grades. Please note that all documentation must be in English or a Scandinavian language.

## General information

The best qualified candidates will be invited for interviews.

Applicant lists can be published in accordance with [Norwegian Freedom of Information Act § 25](#). When you apply for a position with us, your name will appear on the public applicant list. It is possible to request to be excluded from this list. You must justify why you want an exemption from publication and we will then decide whether we can grant your request. If we can't, you will hear from us.

Please refer to [Regulations for the Act on universities and colleges chapter 3](#) (Norwegian), [Guidelines concerning appointment to post doctoral and research posts at UiO](#) (Norwegian) and [Regulations for the degree of Philosophiae Doctor \(PhD\) at the University of Oslo](#).

The University of Oslo has a [transfer agreement](#) with all employees that is intended to secure the rights to all research results etc.

## About the University of Oslo

**The University of Oslo** is Norway's oldest and highest rated institution of research and education with 26 500 students and 7 200 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.

## Additional information

### Contact persons:

- Laszlo Erdodi, Associate Professor  
Phone: | E-mail: [laszloe@ifi.uio.no](mailto:laszloe@ifi.uio.no)
- For questions regarding Jobbnorge, please contact HR Adviser Therese Ringvold,  
Phone: | E-mail: [therese.ringvold@mn.uio.no](mailto:therese.ringvold@mn.uio.no)

### Place of service:

Gaustadalléen 23 B 0373 Oslo (Oslo Municipality)