PhD Research Fellow in Artificial Intelligence for Energy Informatics

Job description

The energy informatics group at the Department of Informatics, University of Oslo, has a PhD position available within the framework of Energy Intelligence, in particular, on the intersection of Internet of Things (IoT) and Artificial Intelligence (AI), focusing on energy efficiency and sustainability aspects. The position is fully funded by the Department of Informatics for 3 years.

The starting date for the position is negotiable, but we prefer commencing employment not later than January 2021.

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

About the position

Key aspects of work for the position include AI techniques for intelligent decision making in energy information networks e.g, green communications and computing, electric mobility, distributed energy trade, etc. The student is expected to have background on AI techniques, edge computing, edge intelligence, and blockchain (advantageous), in the context of energy informatics.

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.

- Master’s degree or equivalent in Electrical Engineering or Computer Science, with a Master Thesis in the Master’s degree program
- Foreign completed degree (M.Sc.-level) corresponding to a minimum of four years in the Norwegian educational system
- Must have documented significant Knowledge/Research Background on optimization and Machine Learning/Deep Learning
- Should have documented some Knowledge on green communications and computing
- Must have very good programming competence in Python, Java, C/C++ or equivalent
- The candidate should also possess good interpersonal and communication skills and show high level of motivation to work as part of an international team.
- Fluent oral and written communication skills in English

The following will be advantageous:

- Research experience or knowledge on smart grid, electric mobility
- Excellent Presentation Skills
- Experience working in an International team

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.

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:

- A cover letter (one page) explaining the candidate's background, qualifications, motivation for the position, and how/why the candidate is qualified for the position
- Curriculum vitae (summarizing education, positions and academic or industrial work experience, scientific publications)
- Copies of the original Bachelor and Master's degree diploma, transcripts of records
- A copy of Master thesis
- Documentation of English proficiency
- Contact information (Name, relation to candidate, email and telephone number) of two-three references, including the Master supervisor(s)
- If you have a Master's degree in a program other than Electrical Engineering or Computer Science, but you believe you are highly qualified according to the requirements of the position, please include a clear explanation in your cover letter about why your profile is highly relevant for the position.

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).

When evaluating the application, emphasis will be given to the cover letter and the applicant’s academic and personal prerequisites to carry out the project. Shortlisted candidates will be called for interview.

Formal regulations

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

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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

Assoc. Prof. Sabita Maharjan: sabita@ifi.uio.no

For questions regarding the recruitment system, please contact HR Adviser Torunn Standal 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: 192328, Søknadsfrist: 20. oktober 2020