PhD Research Fellow at the SIRIUS Centre for Research-based Innovation

Job description

Position as PhD Research Fellow in Industrial Informatics available at the SIRIUS Centre for Research-based Innovation located at the Department of Informatics.

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 may consist 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 fellow will be working in the SIRIUS Center for Scalable Data Access in the Oil & Gas Domain. SIRIUS is a Centre for Research-based Innovation located at and led by the University of Oslo. The centre started its operation in 2015 and has been funded for 8 years by the Research Council of Norway and the SIRIUS partners. Academic partners are the University of Oslo, University of Oxford, Simula Research Laboratory and NTNU. Industrial company partners include Equinor, Schlumberger, IBM, DNV-GL, Evry, Computas, Kadme, Numascale, Dolphin Interconnect, OSIsoft, SAP, BOSCH, Aibel, Aker Solutions and TechnipFMC. The aim of the centre is to provide a vehicle for delivering industrially relevant, innovative research through collaboration between the centre’s partners and through associated projects.

The PhD fellow will be part of the subsurface related activities in SIRIUS and will work towards the research and innovation opportunities around the Open Subsurface Data Universe.

The Open Subsurface Data Universe (OSDU) is a large industrial initiative to develop a standard data platform for the oil and gas industry. It aims to revolutionize the industry's ability to deliver new capabilities and reduce implementation and lifecycle costs.

The PhD fellowship will address a topic in the intersection between digital geoscience and the SIRIUS research programs Analysis of Complex Systems, Data Science, Ontology Engineering or Semantic Integration. The PhD fellow will collaborate with the SIRIUS industrial partners, OSDU Forum members, and geoscientists at UiO and will be a part of a dynamic interdisciplinary research environment.

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 within the area of semantic technologies, formal methods, data science, databases or digital geoscience.
- Foreign degrees (M.Sc.-level) must correspond to a minimum of four years in the Norwegian educational system
- Experience with interdisciplinary research is desired.

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

Desired qualifications:

It is desired that the candidate has background and experience that include theory and application within one or more of the following areas:

- Semantic technologies
- Formal methods
- Data science
- Databases
- Digital geoscience

Inter-disciplinary experience and experience with industry collaboration will be evaluated as an advantage.

Personal skills:

- Ability and motivation to communicate with domain experts outside the field of computer science will be an advantage.

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; mastering a Scandinavian language will be considered an advantage.

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 that includes research interests and motivation for doing a PhD work in informatics in close collaboration with SIRIUS partners. The cover letter should attempt to relate research interests to OSDU
- 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 more information please contact:

Arild Waaler (Centre Director), phone: +47 95212954, e-mail: arild@ifi.uio.no

For questions about OSDU/digital geoscience: Adnan Latif (Project Manager- Subsurface), phone: +47 45 55 46 89, e-mail: adnanl@ifi.uio.no

For questions regarding the recruitment system, please contact: Torunn Standal Gutormsen, 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 UO an important contributor to society.

SIRIUS is a Centre for Research-based Innovation in Scalable Data Access in the Oil & Gas Domain. It is located at and led by the University of Oslo. The centre started operations in 2016 and has been funded by the Research Council of Norway for 8 years. Partner companies include Equinor, TechnipFMC, Schlumberger, IBM, DNV-GL, Evry, Computas, Kadme, Numascale, Dolphin Interconnect, OSIsoft, SAP and TechnipFMC. Academic partners are the University of Oxford, Simula Research Laboratory and NTNU.

The aim of the centre is to provide a vehicle for delivering industrially-relevant, innovative research through collaboration between the centre’s partners and through associated projects. SIRIUS has a central role in the innovation ecosystem around the University of Oslo and the engineering, IT and oil companies in South-East Norway.