

**Jobbnorge ID:** 174582  
**Deadline:** 11/5/2019  
**Website:** <http://www.uis.no/>  
**Scope:** Fulltime  
**Duration:** Fixed Term

Department of Energy Resources invites applicants for a position as

## PhD Fellowship in Petroleum Geosciences

### Job description

The University of Stavanger invites applications for a PhD fellowship in Petroleum Geosciences at the Faculty of Science and Technology, Department of Energy Resources. The position is vacant from 01.01.2020.

This is a trainee position that will give promising researchers an opportunity for academic development leading to a doctoral degree.

The appointment is for three years with research duties exclusively, or four years with both research and 25% compulsory duties. This will be clarified in the recruitment process.

The title of the project is "Integrated geological, geophysical, reservoir, and decision analysis of the Edvard Grieg Field, Utsira High, North Sea".

The Edvard Grieg field is an oil field on the Utsira High, North Sea. Production started in 2015. The reservoir units are Triassic to Cretaceous clastic sediments deposited in an alluvial environment with conglomerates and aeolian sandstones, overlain by a transgressive, marine sandstone of Cretaceous age. About 70% of the reserves are in sand while 30% are in conglomerates. These sediments are hard to characterize and correlate using seismic and well data. Thus, predicting facies and property distributions, as well as fluid flow in the field is challenging.

The objective of this project is to advance decision making by integrating geological, geophysical, reservoir engineering, and decision analysis research, which can improve the prediction of sedimentary facies, rock properties and fluid flow in the Edvard Grieg field. As part of the overall objective, there is a need to evaluate how this improved model affects the quality of probabilistic production forecasts and recovery. The focus is on three main areas: 1. Geological model, which mainly includes the use of geophysical techniques (e.g. velocity modeling and seismic inversion) to improve structural and facies/property modeling, 2. Tectonic and sedimentary evolution of the field through structural restoration and stratigraphic modeling, and 3. Modeling uncertainty through ensemble-based optimization using dynamic (4D seismic and production) data.

All the data from the Edvard Grieg field were kindly donated by Lundin to the IOR centre. As such, the research fellow will have access to a unique dataset. The doctorate will mainly be carried out at the University of Stavanger, although in close collaboration with Lundin geoscientists and engineers.

### Qualification requirements

We are looking for applicants with a strong academic background who have completed a five-year master degree (3+2) within Petroleum Geosciences, preferably acquired recently; or possess corresponding qualifications that could provide a basis for successfully completing a doctorate.

The ideal candidate for the position should have expertise in geology, geophysics and reservoir modeling. S/he should be able to integrate these disciplines to accomplish the project. Seismic and well interpretation and geo-modeling in platforms such as Petrel or RMS are a must. Knowledge of velocity modeling, seismic attributes and seismic inversion are a plus. Expertise in structural restoration (e.g. Move) and stratigraphic forward modeling (e.g. GPM) are desired. Expertise within reservoir modeling (e.g. history matching) is also an advantage.

To be eligible for admission to the doctoral programmes at the University of Stavanger both the grade for your master's thesis and the weighted average grade of your master's degree must individually be equivalent to or better than a B grade.

Applicants with an education from an institution with a different grade scale than A-F should attach a confirmed conversion scale that shows how the grades can be compared with the Norwegian A-F scale.

Emphasis is also placed on your:

- motivation and potential for research within the field
- ability to work independently and in a team, be innovative and creative
- ability to work structured and handle a heavy workload
- having a good command of both oral and written English

### We offer

- varied duties in a large, exciting and socially important organisation

- an ambitious work community which is developing rapidly. We strive to include employees at all levels in strategic decisions and promote an informal atmosphere with a flat organisational structure
- colleague-based guidance programme during your first year of teaching at UiS, NyTi
- salary in accordance with the State Salary Scale, l.pl 17.515, code 1017, NOK 479.600,- gross per year with salary development according to seniority in the position.
- automatic membership in the [Norwegian Public Service Pension Fund](#), which provides favourable insurance- and retirement benefits
- favourable membership terms at a gym and at the SIS sports club at campus
- employment with an Inclusive Workplace organisation which is committed to reducing sick leave, increasing the proportion of employees with reduced working capacity, and increasing the number of professionally active seniors
- "[Hjem-jobb-hjem](#)" discounted public transport to and from work
- as an employee in Norway, you will have access to an optimal health service, as well as good pensions, generous maternity/paternity leave, and a competitive salary. Nursery places are guaranteed and reasonably priced
- [relocation programme](#) in event of moving to Norway, including support and language courses for spouses

## Other information

See "[Regulations concerning terms and conditions of employment for the posts of post-doctoral research fellow and research fellow, research assistant and resident](#)" at the University of Stavanger.

The appointee will be based at the University of Stavanger, with the exception of a stay abroad at a relevant centre of research.

It is a prerequisite that the appointee has a residence which enables him or her to be present at/available to the academic community during ordinary working hours.

The University currently employs few female research fellows within this academic field, and women are therefore particularly encouraged to apply.

The position has been announced in both Norwegian and English. In the case of differences of meaning between the texts, the Norwegian text takes precedence.

## Contact information

More information on the position can be obtained from Professor Nestor Cadozo, tel: 4751832391 , e-mail: [nestor.cardozo@uis.no](mailto:nestor.cardozo@uis.no).

Information about the appointment procedure can be obtained from HR-advisor Margot A.Treen, tel: +4751831419, e-mail: [rekruttering@uis.no](mailto:rekruttering@uis.no).

## Application

To apply for this position please follow the link "Apply for this job". Register your application and CV including relevant education and work experience. In your application letter you must show your research interests and motivation to apply for the position.

**The following documents must be uploaded as attachments to your application in separate files:**

- project proposal
- certificates/diplomas
- references
- list of publications
- other documentation that you consider relevant

The documentation must be available in either a Scandinavian language or in English. If the total size of the attachments exceeds 30 MB, they must be compressed before upload. Information and documentation to be taken into account in the assessment must be submitted within the application deadline. Contact details for three references must be provided in the application or upon request.

Please note that information on applicants may be published even if the applicant has requested not to be included in the official list of applicants - see [Section 25 of the Freedom of Information Act](#).

UiS only considers applications and attachments registered in JobbNorge.

## UiS - challenge the well-known and explore the unknown

The University of Stavanger (UiS) has about 12,000 students and 1,700 employees. We are the only Norwegian member of the European Consortium of Innovative Universities. The university has high ambitions. We will have an innovative and international profile, and will be a driving force in knowledge development and in the process of societal change. Together with our staff and students, we will challenge the well-known and explore the unknown.

The Department of Energy Resources is part of the Faculty of Science and Technology. The international academic staff conducts research related to energy resources, technology for improved oil recovery (IOR), decision analysis and geosciences. Study programs offer courses related to the exploration and utilization of petroleum and natural resources. The department focuses on internationalization, with development of study programs in English and high mobility among academic staff and students. The department contributes significantly to the research activities and leadership of The National IOR Centre of Norway, established by the Ministry of Petroleum and Energy. There are currently 50 employees in the department including research fellows and postdocs.

## Additional information

### Place of service:

Ullandhaug 4036 Stavanger (Stavanger Municipality)