

**Jobbnorge ID:** 290161  
**Deadline:** 1/25/2026  
**Website:** <http://www.uis.no/>  
**Scope:** Fulltime  
**Duration:** Project

# Researcher in Sustainable Energy Systems, Digital Modelling, and Experimental Facility Development

## Job description

The University of Stavanger invites applicants for a three-year position as Researcher in sustainable energy systems, digital modelling, and experimental facility development at the Faculty of Science and Technology, Department of Energy and Petroleum Engineering.

The researcher position will be focused on advancing sustainable and intelligent energy technologies through experimental work, modelling, and digitalization.

The successful candidate will be responsible for the operation, design, and further development of two key experimental infrastructures:

- The Hydrogen Value Chain Test Facility
- The Geothermal-Based Heating and Cooling System

These facilities generate operational data that enable AI-based and physics-based modelling, supporting system monitoring and performance optimization. The position is specifically designed for a candidate combining hands-on experimental competence, Python-based simulation and data analysis expertise, and experience in thermal, HVAC, and energy systems.

It is expected that the researcher collaborates closely with students, engineers, and researchers across mechanical, electrical, and computational disciplines.

The [general job description](#) for researcher at UiS gives a more detailed account of relevant duties.

## Key responsibilities:

- Oversee the operation, maintenance, and continuous development of the hydrogen and geothermal test facilities.
- Design and integrate new test setups, instrumentation, and control systems, including data acquisition and automation.
- Conduct experimental campaigns related to hydrogen systems, HVAC, and thermal energy management.
- Develop and validate simulation using both physics-based and data-driven (AI/ML) approaches.
- Build and maintain Python-based modelling and analysis frameworks for process simulation, data visualization, and techno-economic evaluation.
- Contribute to scientific publications, technical reports, and project deliverables.
- Participate in and lead applications for external research funding and industrial collaboration projects.

## Qualification requirements

We are looking for applicants with a strong academic background who have completed a five-year PhD within a relevant discipline (e.g., Energy Systems, Mechanical Engineering, Process Engineering, Control Systems).

You must be able to document active, ongoing research at a high academic level and have the potential for future high-level research in the subject area. You must have very good command of both oral and written English.

In the assessment the following criteria will be emphasized:

- Documented hands-on experience in the setup, operation, and optimization of experimental facilities, ideally within HVAC or thermal energy systems.
- Proven expertise in system and component modelling, including CFD, 0D/1D simulations, and AI-enhanced process modelling.
- Strong programming and data analysis skills, particularly in Python.
- Experience in automation, control logic, and integration between mechanical, electrical, and software components.
- Understanding of control logic, PLC-based systems, and lab instrumentation.
- Demonstrated ability to plan and manage laboratory activities, process data pipelines, and simulation workflows.
- Strong communication skills and proven ability to work in multidisciplinary teams and international collaborations.

## We offer

- er varied duties in a large, exciting and societally important organisation

- an ambitious work community which is developing rapidly. We strive to include employees at all levels in strategic decisions and and promote an informal atmosphere with a flat organisational structure.
- salary in accordance with the State Salary Scale, l.pl 90.400, code 1109, NOK 700.000-820.000 gross per year with salary development according to seniority in the position. A higher salary may be considered in special cases. From the salary, 2% is deducted as a contribution to the [Norwegian Public Service Pension Fund](#).
- 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
- [language courses](#): On this page you can see which language courses you may be entitled to (look up "language courses" under employment conditions)

## Diversity

Diversity is a resource in the working and learning environment at UiS. When we have different backgrounds and experiences, we can approach challenges from multiple perspectives and find better solutions. At UiS, we are committed to showing respect for each other's differences and accommodating employees with disabilities. We take into consideration your needs and your situation in various life phases.

If you find this position interesting, we encourage you to apply, regardless of gender, disability, cultural background, or whether you have been out of the workforce for a period.

If there are qualified applicants with disabilities, gaps in their CV, or immigrant backgrounds, we will invite at least one applicant from each of these groups for an interview. If you fall into any of these categories, feel free to indicate it when applying for the position.

Learn more about the criteria for being considered an applicant in these specific groups [here](#).

The university aims to recruit more women within the subject area. If several applicants are considered to have equal qualifications, female applicants will be given priority.

## Application

To apply for this position please follow the link "Apply for this job". Your application letter, relevant education and work experience as well as language skills must be registered here. In your application letter, you must state your research interests and motivation for the position.

The following documents must be uploaded as attachments to your application:

- cover letter explaining your interest in the project and the relevance of your background and experience
- CV with a full summary of your education and experience
- transcripts and certificates, and other documentation that you consider relevant
- publications or other relevant research work

Applications are evaluated based on the information available in Jobbnorge at the application deadline. You should ensure that your application shows clearly how your skills and experience meet the criteria which are set out above and that you have attached the necessary documentation.

The documentation must be available in either a Scandinavian language or in English. If the total size of the attachments exceeds 100 MB, they must be compressed before upload.

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](#). If your request is not granted, you will be notified.

UiS only considers applications and attachments registered in Jobbnorge.

## General information

The engagement is to be made in accordance with the regulations in force concerning State Employees and Civil Servants, and the acts relating to Control of the Export of Strategic Goods, Services and Technology.

UiS has signed [The Agreement on Reforming Research Assessment \(CoARA\)](#), committing to recognizing various forms of results, practices, and activities in the evaluation of research and researchers.

We hope that [UIS-CAM, Career Assessment Matrix for teaching and research posts](#) is a useful tool in the process of documenting and reflecting on one's own competence in relation to the criteria.

Your qualifications for the position, based on documentation registered in Jobbnorge, will be assessed by an expert committee. Based on the committee's statement, relevant applicants will be invited to an interview before any recommendations are made. References will also be obtained for relevant candidates.

More about the [hiring process](#) on our website.

UiS has an Acquisition of Rights Agreement for the purpose of securing rights to intellectual property created by its employees, including research results.

It is a prerequisite that you have a residence which enables you to be present at/available to the academic community during ordinary working hours.

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

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

The University of Stavanger (UiS) has about 12,000 students and 2,200 employees. The university has high ambitions. We strive to have an innovative and international profile, and be a driving force in knowledge development and in the process of societal change. Our common direction is driven by consideration for green and sustainable change and equitable social development, through new ways of managing natural resources and facilitating better cities and local communities. Energy, health and welfare, learning for life are our focus areas.

In constant collaboration and dialogue with our surroundings, regionally, nationally and internationally, we enjoy an open and creative climate for education, research, innovation, dissemination and museum activities. Academic life at the University of Stavanger is organised into six faculties comprising various departments/schools and National Research Centres, as well as the Museum of Archaeology. We are a member of

the European Consortium of Innovative Universities. The university is located in the most attractive region in the country with more than 300,000 inhabitants. The Stavanger region has a dynamic labour market and exciting cultural and leisure activities.

Together with our staff and students we will challenge the well-known and explore the unknown.

**The Faculty of Science and Technology** offers study programs at bachelor, master and doctoral level. The faculty has established close cooperation on research with NORCE (Norwegian Research Centre AS) and the regional industry. A number of master's and doctoral theses are made in collaboration with the industry. The faculty has established research collaborations with universities in the US and Europe, and has developed several academic environments that are at the forefront internationally. The faculty has about 2,800 students and approximately 500 employees at the Department of Electrical Engineering and Computer Science, Department of Structural Engineering and Materials Science, Department of Mathematics and Physics, Department of Energy and Petroleum Engineering, Department of Energy Resources, Department of Chemistry, Bioscience and Environmental Engineering and the Department of Safety, Economics and Planning.

**Department of Energy and Petroleum Engineering** carries out research and offers study programs at all levels in Drilling Technology, Natural Gas Technology, Petroleum Engineering and Energy Technology. The department has established close research collaboration with relevant industry - especially in the petroleum and battery sector. The department focuses on internationalization, with the development of English study programs and high mobility among academic staff and students. There are currently 60 employees including research fellows and postdocs.

## Additional information

### Contact persons:

- Rosa Cam Andrade, HR-rådgiver / HR advisor  
Phone: +47 51831191 | E-mail: rosa.c.andrade@uis.no
- Øystein Arild, Instituttleder  
Phone: +47 47672710 | E-mail: oystein.arild@uis.no
- Mohsen Assadi, Professor  
Phone: +47 51832010 | E-mail: mohsen.assadi@uis.no

### Place of service:

Ullandhaug 4021 Stavanger (Stavanger Municipality)