The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines ranging from the social sciences, the arts, medicine, teacher education, architecture to fine art. Cross-disciplinary cooperation results in innovative breakthroughs and creative solutions with far-reaching social and economic impact.

Faculty of Natural Sciences and Technology
Department of Chemical Engineering

20 PhD Research Fellow and Post Doctor positions within Subsea production and processing

Do you want to be part of an R&D team pursuing innovative solutions for subsea oil and gas production and processing? The new research and innovation centre, SUBPRO is offering up to 20 PhD and Postdoc positions.

Improved solutions for subsea processing is an enabler for many of the large oil and gas fields in deep water, remote areas and demanding environments. New, more cost-effective solutions are also needed to ensure higher recovery rates and extended life for existing fields. The oil industry on the Norwegian continental shelf (NCS) has been in the forefront regarding subsea technology developments. The SUBPRO centre seeks to ensure that this position is maintained in the future, for the benefit of field developments on the NCS and globally.

The SUBPRO Centre for research-based innovation is supported by the Research Council of Norway and several major international oil companies and subsea system suppliers.

For more information about the SUBPRO centre, please contact Project coordinator Jon Lippe, email jon.lippe@ntnu.no, phone +47 918 97 033 and visit the web site: www.ntnu.edu/subpro

The mission of SUBPRO is to be a leading international centre and generate knowledge to facilitate innovation within the subsea oil and gas industry. To achieve this goal we are initiating 20 PhD/Post doctor projects in the following core areas:

- Processes and systems design
  This core area deals with design of new process and separation units. Contacts: Professors Hallvard Svendsen (hallvard.svendsen@ntnu.no) and Sigbjørn Sangesland (sigbjorn.sangesland@ntnu.no).

- Separation Fundamentals
  Includes theoretical models and experimental studies of heterogeneous systems. Contact: Professor Johan Sjöblom (johan.sjoblom@chemeng.ntnu.no)

- Systems engineering, control systems and operation
  Topics include optimal operation, control and system dynamics, and performance and condition monitoring. Contact: Professors Sigurd Skogestad (skoge@ntnu.no) and Olav Egeland (olav.ege@ntnu.no)

- Reliability and safety
  Topics include reliability assessment, safety barrier and prognostics and system health management. Contact: Professor Mary Ann Lundteigen (mary.a.lundteigen@ntnu.no)

The PhD candidates and Postdocs will work in cross-disciplinary teams in close connection with industry partners and NTNU faculty.

Please direct enquiries about any specific project in the four areas to the corresponding contact persons listed above.

Qualifications
Applicants for PhD Research Fellow must have an MSc (or equivalent) in chemical engineering, mechanical engineering, petroleum engineering, control systems engineering or similar. Industrial experience from the oil and gas or process industry will be considered an advantage.

Applicants for Post Doctor positions must have a PhD in chemical engineering, mechanical engineering, petroleum engineering, control systems engineering or similar. Industrial experience from the oil and gas or process industry will be considered an advantage.

The successful candidate should be creative, with a strong ability to work problem oriented. He/she should also enjoy interdisciplinary research and take interest in learning and working in teams.

The regulations for PhD programmes at NTNU state that a Master degree or equivalent with at least 5 years of studies and an average grade of A or B within a scale of A-E for passing grades (A best) for the two last years of the MSc is required and C or higher of the BSc. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, which describes in detail the study
and grade system and the rights for further studies associated with the obtained degree: [http://ec.europa.eu/education/tools/diploma-supplement_en.htm](http://ec.europa.eu/education/tools/diploma-supplement_en.htm)

The position requires spoken and written fluency in the English language. Applicants from non-English-speaking countries outside Europe must document English skills by an approved test. Approved tests are TOEFL, IELTS and Cambridge Certificate in Advanced English (CAE) or Cambridge Certificate of Proficiency in English (CPE).

**Terms of employment**
The appointment of Post Doctor and the PhD fellows will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees. Applicants for the PhD fellowships must agree to participate in organized doctoral study programs within the period of the appointment and have to be qualified for the PhD-study.

The position as PhD and Post Doctor is remunerated according to the Norwegian State salary scale.

NTNU’s personnel policy objective is that the staff must reflect the composition of the population to the greatest possible extent. We encourage female applicants. With otherwise equal qualifications, female applicants will be preferred.

**The application**
Applications with CV, certificates from both Bachelor and Master and PhD, possible publications and other scientific works, certified copies of transcripts, (certified copies of documentation on English language proficiency (e.g. TOEFL, IELTS, etc.) ) and reference letters should be submitted electronically through link at this page.

**Applications submitted elsewhere will not be considered.**

The reference number of the position is: **NT- 23/15**

Application deadline: **2015-04-26**

Jobbnorge ID: 112284, Deadline: Closed