

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

PhD position in subsea process systems engineering

An exciting full-time PhD fellowship in the area of subsea process systems engineering is available at the Department of Chemical Engineering at NTNU.

The Department of Chemical Engineering is one of the most productive departments at NTNU in terms of high quality research and publications. It attracts a large number of international students and provides an excellent working environment for starting an academic career.

Our international activity and collaborations with many research universities world-wide lead to good opportunities for participating in international conferences and extended research periods abroad. We have very good contacts to industry, e.g. Statoil and DNV GL, which leads to industrially relevant research and also gives possibilities for industry placements.

Our multicultural working culture is built on openness and trust, and provides a large amount of flexibility and independence. The flat organizational hierarchy guarantees accessible supervisors and effective mentoring.

Further information about the Department of Chemical Engineering may be obtained from <http://www.ntnu.edu/chemeng>.

About the position

Subsea processing is a Norwegian key technology which enables increased hydrocarbon production, enhanced recovery and a longer production period of subsea oil and gas fields.

The position is related to a larger activity on subsea processing at the Department of Chemical Engineering at NTNU, which has been recently extended by initiating a new professorship in subsea process systems engineering. To strengthen our activities further, we are looking for a motivated, balanced PhD student who can think creatively and critically, and who can work independently and consistently on a research project. In particular, the PhD candidate will be involved in developing methods for modelling and optimizing operation of modern subsea oil and gas processing systems.

Possible research topics range from developing subsea process models for modern optimization software to the study of numerical optimization algorithms that may be applied for optimizing subsea process operations.

For further inquiries about the position contact Associate Professor Johannes Jäschke, (+47) 73 59 36 91, e-mail: jaschke@ntnu.no, web: www.nt.ntnu.no/users/jaschke

Qualifications

A Master's degree (or equivalent) in chemical engineering/process systems engineering, or process control is required. Knowledge of mathematical modelling, optimization and control of process systems, including familiarity with simulation and optimization software is required. Knowledge of cyclonic separation technologies, gas/liquid and liquid/liquid separation, multiphase flow, fluid mechanics, and programming is considered an advantage.

The regulations for PhD programs 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

Detailed information on our PhD program is found at: <http://www.ntnu.edu/nt/research/phd>

Terms of employment

The appointment has duration of 3 years with the possibility of up to 1 year extension for teaching duties, in agreement with the department. The position is financed by NTNU.

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

NTNU's personnel policy objective is that the staff must reflect the composition of the population to the greatest possible extent.

The PhD fellowship is remunerated according to the Norwegian State salary scale. The gross annual starting salary is currently NOK 429.400.

The application

Applications with CV, authorized documentation of previous education, study records, including a list of subjects, grades and publications obtained, work experiences as well as achievements in research are to be submitted electronically through www.jobbnorge.no.

Please give also the contact details for 3 references.

The reference number of the position is: NT- 82/14

Application deadline: 18. January 2015

Applications submitted elsewhere than www.jobbnorge.no will not be considered.

Jobbnorge ID: 107678, Deadline: 1/18/2015