

Jobbnorge-ID: 79016
Søknadsfrist: Avsluttet
Nettside:
Omfang:
Varighet:

PhD/PostDoc Fellowship at Department of Energy and Process Engineering (IVT 97/11)

The Multiphase Flow Assurance Centre (FACE)

The Multiphase Flow Assurance Centre (FACE) is a collaboration between laboratories at Institute for Energy Technology (IFE), SINTEF and the Norwegian University of Science and Technology (NTNU). FACE includes fundamental and applied research related to multiphase pipe flows and separation processes.

At the Department of Energy and Process Engineering we have available one **PhD (3 years) or Postdoctoral Fellowship (2 years)** within Multiphase Flow Experiments in Pipes.

Accurate prediction models for multiphase pipeline flow are important for design and operation of subsea oil and gas production systems. Modelling challenges include the transition from stratified flow to dispersed flow and how this varies with quantities like pipe diameter, water cut, fluid properties and surface chemistry; drop behaviour in dispersed flow; and phase inversion phenomena.

Improving the accuracy of the models requires detailed and accurate laboratory experiments. Previous experimental work in FACE has included gas-liquid flows with viscous liquids, dispersed oil-water flows and separation experiments. A PostDoc or PhD position is now available for extension of the experimental work, in particular regarding oil-water flows. The experimental work will include measurements of global parameters (flow regimes, pressure drop and phase fractions) as well as local measurements (droplet size, velocity profiles).

The laboratories at IFE and NTNU will be available for the candidate, the main work is expected to be conducted at IFE. Employer will be the Department of Energy and Process Engineering at the Norwegian University of Science and Technology in Trondheim, Norway.

For further information please contact:

Activity Manager Martin Foss, IFE (martin.foss@ife.no Phone: +47 98 01 63 38)
Section Head Jan Nossen, IFE (jan.nossen@ife.no, Phone: +47 63806199)
Professor Ole Jørgen Nydal, NTNU (ole.j.nydal@ntnu.no + Phone: +47 73550564)

Salaries, etc.

PhD candidates are remunerated in code 1017, grade 48-56 on the Norwegian State salary scale, gross NOK 391 100 to NOK 448 080 per year (before tax). PhD students are normally remunerated at wage level 48. The PhD candidate period is for 3 years without duties for the department. Post doctoral fellows are remunerated in code 1352, grade 57-76 on the Norwegian State salary scale, gross NOK 455 912 to NOK 654 572 per year (before tax). Postdoctoral fellow are normally remunerated at wage level 57. Post doctoral fellows period is for 2 years. There will be a 2 % deduction to the Norwegian Public Service Pension Fund from gross salary.

Engagement as a PhD candidates and Post doctoral fellows is done in accordance with current appointment regulations with supplementary rules in force giving guidelines for scholarship appointments in universities and university colleges. The goal of each of the announced positions is to obtain a PhD degree. Applicants are obliged to engage in an organized PhD training program, and appointment requires approval of the applicant's plan for a PhD study within three months from the date of commencement. A contract of employment will be set up for the engagement period regulating the rights and duties of the PhD student/ post doctoral fellow.

The engagement is to be made in accordance with the regulations in force concerning State Employees and Civil Servants.

The position adheres to the Norwegian Government's policy of balanced ethnicity, age and gender. Persons with immigrant background are encouraged to apply. NTNU's objective is to increase the number of females in scientific positions. Female applicants are therefore encouraged to apply.

The application must contain information of educational background and work experience. Certified copies of transcripts and reference letters should be enclosed.

An application inclusive CV, grade transcripts, and other enclosures are to be submitted via the link «Apply for this job», **ref.no. IVT-97/11**.
Application deadline: 10 December 2011.

Tilleggsinformasjon

Arbeidssted: