

## NTNU - knowledge for a better world

*The Norwegian University of Science and Technology (NTNU) creates knowledge for a better world and solutions that can change everyday life.*

### Faculty of Engineering

Department of Energy and Process Engineering

## PhD position in experimental fluid mechanics (IV-158/17)

### Description

A PhD position is available within the Fluids Mechanics group at the Department of Energy and Process Engineering at NTNU. The position is fully financed by the Department of Energy and Process Engineering.

The project is aimed at increasing our understanding of acoustically forced jet flows. Loudspeakers are used to create an oscillating pressure field, resulting in velocity oscillations in the jet flow and the formation of large-scale vortex structures. Such flows are relevant for a range of different practical technologies, and by focusing on the fundamental flow physics, the project is likely to have a significant and wide ranging impact. The position will involve conducting a series of laboratory experiments using state-of-the-art laser diagnostics such as high-speed Stereoscopic Particle Image Velocimetry (SPIV), high-speed cameras for flow visualisation, as well as acoustic measurements.

### Qualifications

The successful applicant should be enthusiastic and highly motivated, be able to work well both independently and with other researchers, and have a strong background in fundamental or applied fluid mechanics. Applicants should have a Masters degree and an excellent academic track record in Physics, Engineering, Applied Mathematics, or equivalent. Good programming skills in MATLAB and LabView or other similar packages is essential.

### Conditions

PhD Candidates are remunerated in code 1017, and are normally remunerated with gross NOK 432,300 before tax. There will be a 2 % deduction to the Norwegian Public Service Pension Fund from gross wage.

Engagement as a PhD Candidate is done in accordance with "Regulation concerning terms and conditions of employment for the posts of post-doctoral research fellow, research fellow, research assistant and resident", given by the Ministry of Education and Research of 19.07.2010. The goal of the positions is to obtain a PhD degree. Applicants will engage in an organized PhD training program, and appointment requires approval of the applicants plan for a PhD study within three months from the date of commencement.

The appointment has a duration of 3 years as a researcher towards the degree of PhD.

For further information on the position, please contact Associate Professor Nicholas Worth, Department of Energy and Process Engineering, NTNU, Trondheim. Email: [nicholas.a.worth@ntnu.no](mailto:nicholas.a.worth@ntnu.no)

See <http://www.ntnu.edu/ivt/phd> for more information.

The engagement is to be made in accordance with the regulations in force concerning State Employees and Civil Servants. The positions adhere to the Norwegian Government's policy of balanced ethnicity, age and gender. Women are encouraged to apply.

### The application

The application must contain information of educational background and work experience. Certified copies of transcripts and reference letters should be enclosed. Applications with CV, grade transcripts and other enclosures should be submitted via this webpage. **Mark the application with IV-158/17.**

Anticipated commencement: May be discussed with the department, but tentatively August 2017.

### Application deadline: 17.07.2017

According to the new Freedom of Information Act, information concerning the applicant may be made public even if the applicant has requested not to be included in the list of applicants.

Jobbnorge ID: 139893, Deadline: 17.07.2017, Internal ID: IV-158/17