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

PhD position within Aquaculture structures (IV-195/18)

**Faculty of Engineering
Department of Marine Technology**

PhD position within Aquaculture structures (IV-195/18)

Description

We have an open PhD position related to this topic: Floating closed aquaculture cages.

The aquaculture industry in Norway is having an increased focus on the use of closed cages. The motivation for this is the possibility to control the water environment in the cage, and through this avoid parasites such as sea-lice. Closed cages also give the industry a tool to pursue different production strategies such as e.g. post-smolt production in closed cages. As floating structures, closed cages are different from conventional net based cages. Sloshing, for instance, becomes an important factor and resonance related problems are significant in a closed cage.

It is important to understand the structures in order to make them safe and reliable, and the main objective of the research is to establish a better understanding of the behavior of closed cages in the wave and current exposure of the coastal zone. This includes both understanding the structure, but also understanding the conditions at the site of installation. The wave and current conditions at relevant sites in the Norwegian coastal zone will form the basis of analysis which will be done on both operational and extreme conditions.

The candidate will be included in relevant on-going projects where the department is a partner, such as the Centre for Research-Based Innovation on exposed aquaculture operations - SFI EXPOSED (www.exposedaquaculture.no/en), and the NFR-KPN Safe operation of closed cages in waves (www.sintef.no/en/projects/safe-operation-of-closed-aquaculture-cages-in-waves-ccw). Both projects are hosted by SINTEF Ocean.

Qualifications

The position requires a Master's degree in marine technology, industrial mathematics or a similar relevant area. A background in marine hydrodynamics is favorable. The successful candidate should be enthusiastic and highly motivated and be willing to work both independently and with other researchers. Very good skills in written and oral communication in English is important, and it is also favorable that the candidate can communicate in Norwegian. The successful candidate must also fulfill the requirement for admission to a doctoral program.

Conditions

PhD Candidates are remunerated in code 1017, and are normally remunerated at gross NOK 436 900 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 position is of 4 years duration, of which 25% teaching duties.

For further information about the position, please contact Prof. Pål Lader, Department of Marine Technology, NTNU, Trondheim. Email: pal.lader@ntnu.no.

See <https://www.ntnu.edu/iv/doctoral-programme> 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 at www.jobbnorge.no.

Mark the application with IV-195/18.

Start-up date may be discussed, but tentatively August/September 2018.

Application deadline is 29 June 2018

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: 154172, Søknadsfrist: Søknadsfristen er gått ut