
***The Institute of Marine Research is one of Europe's largest centres of marine research. We have a staff of around 750 and a wide range of research facilities and laboratories of high international standard. The Institute owns and operates six research vessels. Our main offices are in Bergen, and we have a department in Tromsø and research stations in Matre, Austevoll and Flødevigen.***

## PhD Research Fellowship Positions in Computational and Applied Marine Science

The Institute of Marine Research (IMR) in Norway, in collaboration with the Western Norway University of Applied Sciences (HVL), currently has two openings for 4-year PhD research fellow positions in computational and applied marine science. The PhD research fellows will be part of the HVL research group on Engineering Computing, and the IMR research group on Fisheries Dynamics.

The PhD research fellows will work on a cross-disciplinary, collaborative research project between HVL and IMR, which seeks to develop cutting edge methodologies to support a framework for modeling and prediction of fish stock population dynamics, and uncertainty quantification. The principal areas of research will include elements of computational modeling, optimization, parameter estimation, and numerical solutions to space-time ordinary, partial, and delay differential equations. Results from the PhD research are expected to provide key contributions to the IMR strategic project on fish stock assessment and uncertainty reduction – REDUS (Reduced Uncertainty in Stock Assessment, http://redus.no/). Collaboration with scientists, postdocs and other PhD fellows within the REDUS project will therefore be central.

## Qualifications

Applicants must have solid quantitative background, with a master's degree in mathematics, computational and applied mathematics, or mathematical biology. An average grade of at least B (ECTS grading system) of courses at graduate level is required. In addition, graduate thesis (grade B or better) and courses must cover one or several areas, including numerical solution to ordinary-, delay-, partial differential equations, numerical optimization, and computational modeling. Excellent programming skills in Matlab, C/C++ or Python are expected. Knowledge of the R programming language would be an added advantage. Preference will be given to candidates with demonstrated ability to work independently, good language skills and a potential to carry out high-quality research.

The successful candidate must meet the formal admission requirements for the 4-year PhD program at the HVL, and be enrolled as a PhD student within 3 months from the

start of employment. 25% of the period will be designated to duties such as teaching, development or administrative tasks.

**We offer**

- A positive, challenging and creative working environment
- An extensive research network of reputable, national and international institutions
- Flexible working hours, a good pension scheme and welfare services

**Salary scale**

Initial salaries will be offered at grade 50 (code 1017) of the Civil Service pay scale; currently NOK 429 700 gross p.a. There is a compulsory 2% deduction to the pension fund (see www.spk.no/en/ for more information).

**Additional Information**

For more information, contact Snr Scientist Dr. Sam Subbey, IMR (Ph: +47 46836823, e-mail: samuels@imr.no) or Prof. Talal Rahman, HVL (Ph: +47 55587246, e-mail: talal.rahman@hvl.no).

The Institute of Marine Research is an Inclusive Workplace (IW) enterprise that wishes to ensure diversity in its workforce, and we are an equal opportunity employer. We therefore encourage all qualified candidates to apply for the vacancy. Please note that information about applicants may be made public even if an applicant has requested to be omitted from the list of applicants. Applicants will be notified about this in advance.

Apply electronically through jobbnorge.no, attaching a short letter of motivation, name and contact details of at least two academic references, a CV with documentation in support (including a list of publications, transcripts, copy of certificates, diplomas, and Master thesis).

**Application deadline: 1st August 2017**