



N I F E S

NASJONALT INSTITUTT  
FOR ERNÆRINGS- OG  
SJØMATFORSKNING

The National Institute for Nutrition and Seafood Research (NIFES) is a research institute with administrative duties, linked to the Ministry of Fisheries and Coastal Affairs. Our research focus is nutrition; feed for fish, and fish as food. The institute gives scientific advice to the government and food authorities concerning health and safety aspects of seafood, both wild and farmed. NIFES is situated in Bergen, Norway and has 150 employees of which 49 are researchers and Ph.D. students. About 30 master students are currently affiliated to the institute. The research is organised in four research programmes and the analytical work is organised in three laboratories integrated within the institute.

### **Mrk. 12/08 PhD position**

Seafood, especially oily fish such as Atlantic salmon (*Salmo salar*), is a rich source of marine n-3 fatty acids which is important for human health. However, seafood contamination due to environmental contaminants is a common cause of mental degeneration diseases. Our research focuses on apoptosis studies of salmon primary cells and cell lines treated by toxicants combined with the uptake and effects of marine n-3 fatty acids and other nutrients to study factors involved in adaptive mechanisms of neurotoxicants in *A. salmon*. Extensive resources around this model organism have been established including: primary cell cultures, gene expression analysis, microarray analysis, and knockdown approaches.

There is one PhD position available at NIFES in a research council supported SIP-seafood and mental health project. Applicants should have an interest in the contribution of gene expression and regulation of toxicant-induced apoptosis and a sound background in molecular and cell cultures. The PhD scholarship is for 3 years (1017 PhD, following merit regulations for public employees). Applicants for the PhD scholarship must have a master's degree or be able to demonstrate equivalent qualification by peer-reviewed research accomplishment, or have submitted their master thesis for assessment by the application deadline. Admission to the PhD program will be worked out in collaboration with the research group.

NIFES is a national reference laboratory for several analytical methods, including the detection of pathogenic parasites in seafood, and has 81 accredited methods according to NS-EN ISO/IEC 17025. The institute educates scientists at master- and PhD-level for the University of Bergen, in the disciplines of Fish Nutrition (degree in aquaculture), Quality and Processing of Seafood (degree in aquaculture), and Nutrition (degree in Biology). In addition, NIFES is involved in more detailed studies using *in vitro* *A. salmon* models and developing molecular tools for studies of effects of nutrition on metabolism. NIFES have high standard facilities for cell cultures and molecule studies, in addition to immunohistochemistry and *in situ* hybridization studies.

The salary is regulated through the governmental scale of wages (1017 Stipendiat lr. 20), salary grades 43-47 (gross yearly salary 325.800 – 349.100 NOK). A 2 % deduction will be made from the gross yearly salary to the governmental pension fund.

For further information regarding the position and scientific content of the project please contact Dr. Tien-sheng Huang, e-mail: [tihu@nifes.no](mailto:tihu@nifes.no), tel: 95493171; Dr. Bente E. Torstensen, email: [Bto@nifes.no](mailto:Bto@nifes.no), tel: 41462894.

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*Vennligst adresser post til NIFES, ikke til enkeltpersoner*

Send the application together with an english CV and a completed standardised application form (can be downloaded from [www.nifes.no/norwegian/ledige.html](http://www.nifes.no/norwegian/ledige.html) or call + 47 95292887 for mail delivery) to NIFES, post-box 2029 Nordnes, 5817 Bergen. Mark the application "Mrk. 12/08". The application will not be returned. The application deadline is 19th of April 2008.