Professorship in Marine Ecosystem at high trophic levels (fish and shellfish)

Greenland Institute of Natural Resources

Applications are invited for a position as Professor within the research field of marine ecosystem at high trophic levels (fish and shellfish) with specific assignments (MSA) in public sector consultancy, advising on status, development and exploitation of marine living resources.

The professorship is affiliated with the Greenland Institute of Natural Resources, Department of Fish and Shellfish, Nuuk, Greenland. The professor will also act as adjunct professor at the National Institute of Aquatic Resources (DTU Aqua) at the Technical University of Denmark. The adjunct professorship is subject to approval by DTU's Academic Council prior to final appointment. The professor is expected to visit DTU Aqua in Charlottenlund, Denmark regularly as part of the adjunct professor appointment.

The position is intended for a candidate with a track record of internationally acknowledged research in marine ecosystem at high trophic levels and extensive experience in development of tools to improve the understanding of marine ecosystem and giving advice on fisheries management.

An outstanding record in leadership including planning, implementing and running multidisciplinary research, assessment and advisory groups is required as well as knowledge of and visions for integrating standard observations on Marine ecosystem into research programs and research findings into stock assessments and fisheries management procedures.

Responsibilities and tasks
The Professor's primary responsibility will be development of tools to improve the understanding on the variability of marine ecosystem and the interaction between the environment, key species influencing ecosystem functioning and fish and shellfish stocks, Quantitative modelling activities can be extended to include ecology, feeding and migration dimensions.

The Professor should actively contribute to enhancing the scientific understanding of the past, present and future dynamics of ecologically and economically important fish stocks with the goal to improve the understanding of marine ecosystem on fish and shellfish dynamics. The Professor is expected to improve the capacity of the institute for giving advice to managers of fisheries, policy makers and other relevant authorities, hereby developing the ecosystem approach.

An important focus will be on application, implementation and coordination of multidisciplinary research activities as far as possible utilising existing monitoring activities as well as linking national and international research and monitoring efforts. This will include active participation in the institute's research and advisory committee and to contribute to national and international research programmes as well as in international stock assessment and advisory activities.

Finally, the Professor will contribute to teaching in fish population ecology and stock assessments on Master and PhD level, and supervise PhD students and post docs.

Qualifications
Candidates should have well-documented international recognition within their research field, being visionary in their scientific approach and able to initiate and coordinate crucial research activities.

In the assessment of candidates, particular consideration will be given to:

- scientific production at international level, research potential and ability to lead and develop a research team
- the ability to promote and utilize research results
- the ability to attract funding to the research area

- an all-round experience basis, including international experience
- the ability to contribute to the development of the department's internal and external cooperation
- track record in attracting funding to the research area
- visions within the research area
- the ability to teach
- research leadership in implementing and coordinating multidisciplinary research groups and research programs comprising field, experimental and modelling activities
- experience in integration of data and samples generated by existing observation programmes into research on fish population ecology and achieved research results in fish stock assessment methodology and advisory procedures
- experience in giving advice on fish and shellfish population and related fisheries dynamics

Salary and terms of employment
The appointment and allowance will be based on individual contract.

Further information
Further information may be obtained from Head of Department, Helle Siegstad, tel.: +299 361220, email: HeSi@natur.gl.

You can read more about Greenland Institute of Natural Resources on www.natur.gl and about National Institute of Aquatic Resources (DTU Aqua) at the Technical University of Denmark on http://www.aqua.dtu.dk

Application procedure
Applications, which should be submitted in English, must include a CV and a list of publications indicating those that the applicant regards as the scientific highlights. Applicants are encouraged to prepare and submit a summary of their latest research results and advisory activities including a plan for future activities when filling the position.

The application and enclosures must be received no later than **15. February 2013.** The applications could be send by email to HeSi@natur.gl or addressed to: Greenland Institute of Natural Resources, , marked "Professor Marine Ecosystem", Box 570, 3900 Nuuk, Greenland.

Greenland Institute of Natural Resources *is the Government's centre for biological research and the primary objective is to provide the scientific basis for a sustainable use of the natural resources in Greenland, as well as safeguarding the environment and biological diversity.*

Fisheries are Greenland's principal exporting industry, and this will be a key position in maintaining the quality of the advice on fisheries management offered by the Institute to the Government. The fishery on shrimp and Greenland halibut has been the most important in terms of both economy and total catch during the last decade. Cod was a main player in the ecosystem off West-Greenland until early 1990´ties, however the importance of the cod decreased drastic after the cod disappeared from Greenland water due to changes in the environment. Also marine mammals and sea bird are central elements in the ecosystem, both as part of a human utilization schemes and as their role as top predators. Rapid and drastic changes in occurrence and compositions of species in the West-Greenland ecosystem are well-known and documented. The understanding of the reasons for these changes is very limited today, although is seems to be related to changes in hydrographic conditions.

The Institute consists of about 60 people in tree research departments: Department of Fish and Shrimp, Department of Birds and Mammals and the Greenland Climate Research Centre. In addition, the institute has a number of scientific and administrative support functions, including two research vessels: SANNA and PAAMIUT.