Professor in Fish Population Dynamics and Vital Rates
Technical University of Denmark

Job Title Professor in Fish Population Dynamics and Vital Rates

Department DTU Aqua
https://www.aqua.dtu.dk/english/

Institution Technical University of Denmark
Copenhagen, , Denmark

Date Posted Apr. 29, 2025

Application Deadline Jun. 10, 2025

Position Start Date Available immediately

Job Categories Professor

Academic Field(s) Marine/Freshwater Sciences
Environmental Sciences/Ecology/Forestry
Biology - Microbiology
Biology - General

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Job Description

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DTU invites applications for a position as professor in fish population dynamics and vital rates. The professorship is affiliated with the National Institute of Aquatic Resources (DTU Aqua), Section for Marine Living Resources. Workplace is in Kgs. Lyngby at the main campus of DTU, but with considerable activities at other locations of the Institute and international expert groups.

Responsibilities and qualifications
The professor is expected to lead the research area Fish Population Dynamics and Stock Assessment at DTU Aqua and to take an integrated approach including advanced observation technology and data post-processing as well as modelling and participation in international stock assessment activities. The research field and working area may, but does not need to include all following aspects:

- Implementation and advancement of methods for processing acoustic data to monitor fish distribution, movements and abundance on different spatial and temporal scales.
- Life history characterization and description of fitness optimization at individual and/or population level.
- Integration of survey- and laboratory data to gain a mechanistic understanding of commercial fish distribution and trophic interactions as processes being sensitivity to climate and biodiversity change.
- Quantify key population dynamic rates, e.g. growth and mortality based on research survey results and information from the commercial fisheries.
- Quantitative studies of climate change and other drivers of change impact on distribution and productivity of fish stocks utilising oceanographic monitoring data and physical oceanography/climate model output.
- Process implementation in existing fish stock assessments and ecosystem-based fisheries management methods with a focus on limiting the outcome space for population predictions.

The Professor is expected to work across different sections and research areas at DTU Aqua, the university and national and international collaboration partners. This includes international collaborations and commitment to the development of ecosystem-based fisheries management approaches with mechanistic knowledge on the processes governing population dynamics.

Required is a track record in research leadership, including strategic development, planning, funding, implementing as well as running interdisciplinary national and international research initiatives within the research field.

Application procedure
Your complete online application must be submitted no later than **10 June 2025 (23:59 Danish time)**.

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To view the full announcement and to apply:Professor in Fish population dynamics and vital rates

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Fritz Köster
DTU Aqua
Technical University of Denmark
Copenhagen 2800
Denmark

Phone Number +45 21362805
Contact E-mail fwk@aqua.dtu.dk