

# Professor in Population Genomics and Biodiversity Technical University of Denmark

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- Job Title Professor in Population Genomics and Biodiversity
- Department National Institute of Aquatic Resources

https://www.aqua.dtu.dk/english/

Institution Technical University of Denmark Copenhagen, , Denmark

Date Apr. 29, 2025 Posted

Application Jun. 10, 2025 Deadline Position Available immediately Start Date

Job Professor Categories

Academic Marine/Freshwater Sciences Field(s) Biology - Genetics

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Job Description

DTU invites applications for a position as professor in population genomics and biodiversity. The



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professorship is affiliated with the National Institute of Aquatic Resources (DTU Aqua), Section for Marine Living Resources. Workplace will be in DTU Aqua's center for freshwater ecology and fisheries in Silkeborg, which includes the research area population genetics. However, considerable activities at other locations of the Institute and participation in international expert groups can be expected.

#### **Responsibilities and qualifications**

The professor is expected to contribute to scientific advancement and technical developments within the research field of applied DNA, and to combine DNA technologies with other types of data collection and analysis, e.g. tracking, stock- and ecosystem modelling to provide the scientific underpinnings needed for reconciliation of aquatic/fisheries management with biodiversity conservation.

This requires close cooperation with other research areas and sections of the institute, as well as national and international research organisations. Scientific themes to be handled should include:

- Biological stock identification: development and application of population genomics and -genetic analyses in freshwater and marine organisms in space and time, with particular focus on migratory populations.
- Evolutionary genomics: determining adaptive variation within and among populations, including combining molecular and experimental analyses to determine drivers of marine connectivity.
- Conservation and management: implementation of genetic data in fisheries data, conservation planning and advice to managers with special emphasis on life-stage specific, spatial and temporal variation.
- Technological innovation: development of eDNA (environmental DNA) based methods to determine species and population composition in samples from fisheries and the natural environment, with the aim to support biodiversity management e.g. in real-time.

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 as well as conserving aquatic biodiversity and ecosystem function.

The professor will be involved in national and international advisory functions, hereunder to the Ministry of Food, Agriculture and Fisheries as well as the International Council for the Exploration of the Sea (ICES).

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



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Results should be disseminated in peer-reviewed publications and international conferences as well as dedicated outlets aiming to inform international advisory and management organisation, stakeholders and the society at large.

#### Application procedure

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

To view the full announcement and to apply: Professor in Population Genomics and Biodiversity

#### **Contact Information**

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

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