

## **Professor in Marine Sustainability**

DTU invites applications for a position as professor in the research field of Marine Sustainability. The professorship is affiliated with the National Institute of Aquatic Resources (DTU Aqua), Section for Ecosystem Based Marine Management, and is based in Kgs. Lyngby, Denmark.

The section for Ecosystem Based Marine Management conducts research on the direct and indirect effects of fishing and other anthropogenic activities on the marine environment. The aim is to develop knowledge and tools for use in an evidence-based ecologically and economically sustainable management. Activities of the section are structured in four research areas. Marine habitats focuses on the importance of habitats for fish stock dynamics. Fisheries technology addresses the efficiency, selectivity, and environmental impact of the fishing process. The aim is to reduce unwanted bycatch of fish, marine mammals or seabirds, and the impact on the marine environment, while improving the efficiency and competitive abilities of the fishery.

Research in Fisheries management creates the scientific basis for advice on effects of management measures, such as limits to the amount of fish landed, closed areas, and multiannual management plans and for determining their likely effects on the ecosystem and the value of the fishery. Research in Ecosystem effects of fishing focuses on the quantitative analyses of indicators and reference levels for the interaction between fisheries and marine mammals, seabirds, and benthos, and the contribution of these and other indicators to Good Environmental Status under the European Marine Strategy Framework Directive. It further addresses the interactions between the ecosystem, fisheries, and other maritime activities providing the basis for advice on reducing conflicts and the management of marine ecosystems and maritime activities in general.

### **Responsibilities and tasks**

The professor's research field will be to develop the foundation for sustainable blue economies, investigating how repeated disturbances interact with other pressures to elicit changes in population dynamics of commercially, ecologically important or sensitive marine species.

The successful candidate will be tasked with combining information on behavioural, biological and governance processes to develop a quantitative approach to evaluate management strategies aiming to maintain sustainable marine exploitation while ensuring economic prosperity, social coherence, good environmental status, and favourable conservation status in the context of relevant policy directives and agreements. Work will include exploring patterns of end-user behaviour—and its drivers—for key marine sectors in order to find new management schemes for key drivers of sustainability.

The professor is expected to give advice on trajectory, stability, and progress towards the UN Sustainable Development Goals integrating major facets of sustainability objectives and their potential conflicts and synergies. Contribution to global assessment activities and other UN activities are expected as well as contributions to the implementation of the EU Directive on Maritime Spatial Planning on national and international level.

The successful candidate is expected to take a lead role in teaching at the BSc, MSc, and PhD levels, including supervision and training of PhD students and postdocs. For international candidates, DTU can provide Danish language courses enabling the candidates to teach in Danish within 2-3 years. Research, advisory and education activities should be conducted in close cooperation with other units and research sections in the institute, other units at the university and other relevant research groups abroad. Results should be disseminated in peer-reviewed publications and dedicated outlets aiming to inform management authorities, stakeholders, and the public at large and foster national and international collaboration.

### **Qualifications**

Employment requires innovative research at the highest international level within relevant research themes, including visionary strategic development of the research area as well as planning, implementing, and running interdisciplinary research projects. The professor should have extensive experience in teaching and educational development at all academic levels, including supervision and training of PhD students and postdocs.

The successful candidate must hold an internationally recognised track record on:

- Consequences of anthropogenic and natural disturbances on marine populations
- Condition-mediated population dynamics addressed
- Computational behavioural sciences
- Modelling socioecological systems
- Sustainability and quantitative governance
- Integrating ecosystem, economic, social and governance objectives in marine management,
- Global assessments, such as the UN World Ocean Assessment, and providing advice on marine management to policy development and management authorities.

### Assessment

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

- Documented experience and quality of teaching and curriculum development
- Research impact and experience, funding track record and research vision
- Societal impact
- Documented innovation activities, including commercialization and collaboration with industry
- International impact and experience
- Leadership and collaboration
- Communication skills

Consideration will also be given to:

- scientific production and research potential
- experience in giving advice to national authorities, international advisory bodies and stakeholders
- research leadership in implementing and coordinating multidisciplinary research programmes
- ability to promote and utilize research results in management advice
- Experience in working with maritime spatial planning

### We offer

DTU is a leading technical university globally recognized for the excellence of its research, education, innovation, and scientific advice. We offer a rewarding and challenging job in an international environment. We strive for academic excellence in an environment characterized by collegial respect and academic freedom tempered by responsibility.

### Salary and terms of employment

The appointment will be based on the collective agreement with the Confederation of Professional Associations. The allowance will be agreed with the relevant union.

### Further information

Further information may be obtained from Institute Director Fritz Köster, email: [fwk@aqua.dtu.dk](mailto:fwk@aqua.dtu.dk), cell phone: +45 21362805 or Section leader Anna Rindorf, tel.:+45 3588 2278, email: [ar@aqua.dtu.dk](mailto:ar@aqua.dtu.dk).

You can read more about DTU Aqua on [www.aqua.dtu.dk](http://www.aqua.dtu.dk)

### Application procedure

Please submit your online application no later than **XXX 2019 (local time)**.

Applications must be submitted as **one PDF file** containing all materials to be given consideration. To apply, please open the link 'Apply online', fill out the online application form, and attach **all your materials in English in one PDF file**. The file must include:

- Application (cover letter) addressed to the President
- CV
- A vision for future research
- Teaching and research statement, with a focus on the 'Assessment' bullet points listed above

- Documentation of previous teaching and research, as related to the 'Assessment' bullet points listed above
- List of publications indicating scientific highlights
- H-index, and ORCID (see e.g. <http://orcid.org/>)
- Diploma (MSc/PhD)

Applications and enclosures received after the deadline will not be considered.

All interested candidates irrespective of age, gender, disability, race, religion or ethnic background are encouraged to apply.