

The Thünen Institute of Sea Fisheries of the Johann Heinrich von Thünen Institute, Federal Research Institute for Rural Areas, Forestry and Fisheries, is offering a full-time position for the next possible date for a

Scientist (f/m/d)
with specialization in Fisheries and Fish Stock Assessments

The Institute of Sea Fisheries conducts research on ecological and economic aspects of fisheries. The advertised field of activity belongs to the research unit Marine Living Resources (see "Research Profile of the Thünen Institute of Sea Fisheries", <https://www.thuenen.de/en/sf/fields-of-activity/marine-living-resources/>).

The Thünen Institute of Sea Fisheries provides the German contribution to stock assessments and catch quota advice for fish stocks in the North Sea and North Atlantic. The scientific focus of the position to be filled is on the further development of models and methods to improve the accuracy of stock assessments and forecasts.

The main objectives of European fisheries management are on the one hand to implement the MSY principle and on the other hand to minimise the impact of fisheries on marine ecosystems and habitats. The latter includes in particular the avoidance of unwanted by-catches and fishing practices that damage the seabed. The development of concepts and the evaluation of proposals for fisheries management measures is therefore a further area of responsibility of the announced position.

We are looking for a person who is willing to contribute ideas and skills to the further development of these areas of responsibility and who will take on the Institute's policy advice tasks in this area.

Responsibilities:

- Exploitation of new data sources for stock assessments (e.g. hydro-acoustic data from commercial vessels, remote sensing data) as well as preparation and validation of data, taking into account new statistical methods and artificial intelligence (AI)
- Further development of methods and models for stock assessments as well as self-responsible realization of stock assessments and simulations with single-species and multi-species models
- Implementation of these methods into routine applications and data streams in the institute and their connection to the databases and working groups of the International Council for the Exploration of the Sea (ICES)
- Development of fisheries management measures and strategies; in particular spatial measures, concepts for real-time assessments and real-time management, alternatives to catch quota management including impact assessments of management strategies and measures
- Intensive cooperation with the institute's research units in the field of monitoring and data collection as well as economics
- Participation in ICES assessment working groups relevant for the Thünen Institute and expert groups of the EU Scientific, Technical and Economic Committee for Fisheries (STECF)
- Policy advice by means of statements for the German Federal Ministry of Food and Agriculture (BMEL) and other clients as well as by contributions to relevant ICES and STECF expert groups
- Publication of the results in international scientific journals

Technical requirements profile:

- University degree (Univ.-Dipl./Master) in Fisheries Biology or comparable degree with in-depth knowledge of quantitative data analysis and modelling; PhD welcome
- In-depth knowledge of population biology and population dynamics of fish and other exploited marine organisms
- Extensive experience in the application of fisheries assessment methods and models used in stock assessments and/or impact assessments of management strategies

- Excellent knowledge of modern statistical methods and experience with appropriate application software (e.g. R)
- Programming skills in R, ADMB or similar programming environments
- Experience in fisheries policy and fisheries management
- Knowledge of AI applications, in particular the use of AI for pattern recognition in large data sets, information mining and similar methods is an advantage
- Experience from participation in ICES or STECF expert groups

Personal requirements profile:

- Ability and interest in establishing your own field of research within the scope of your area of responsibility
- Ability to analyse complex issues
- Goal-oriented work style, independent work mode, high degree of personal initiative
- Critical judgement
- Ability to express complex issues clearly and comprehensibly for different target groups
- Ability and willingness to lead and work in interdisciplinary teams
- Willingness to travel on business for several days and, if necessary, on sea voyages lasting several weeks
- Very good written and spoken German and English language skills or, in the absence of German language skills, willingness to undergo appropriate further training

We offer you the integration into a dynamic, interdisciplinary fisheries research institute and proximity to current policy-relevant discussions, which are also of great interest to the public. You will be given a high degree of personal freedom and you can take advantage of a wide range of further training opportunities. We offer a family-friendly working environment.

The employment relation is based on the provisions of the collective labour agreement for the public sector (TVöD). A salary group up to 14 TVöD is possible when the personal and collective labour agreement requirements are fulfilled. Part-time employment is generally possible.

The Thünen Institute promotes the professional equality of women and men and therefore explicitly welcomes applications from women.

The Thünen Institute is committed to inclusion. Applications from people with severe disabilities are therefore explicitly welcome. These will be given special consideration in the selection process.

For subject-related questions, please contact Dr. Alexander Kempf (Tel. +49 471 94460-251; alexander.kempf@thuenen.de).

Written applications with a tabular curriculum vitae, a description of education and professional career as well as copies of certificates, if possible within one single PDF file, are requested by 31 July 2020 under the code "2020-125-SF" to

sf-bewerbungen@thuenen.de

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Information pursuant to Article 13 DSGVO on the collection of personal data can be found at www.thuenen.de/datenschutzhinweis-bewerbungen.