GEOMAR Helmholtz Centre for Ocean Research Kiel is a foundation of public law jointly financed by the Federal Republic of Germany (90 %) and the state of Schleswig-Holstein (10 %) and is one of the internationally leading institutions in the field of marine sciences. Currently GEOMAR disposes over an annual budget of approx. 80 million Euro and has approx. 1000 employees.

The research unit Marine Evolutionary Ecology of the research division Marine Ecology is offering a position as

**Biologist/Programmer (m/f/d)**

starting on October 1, 2021.

**Job Description**

We are seeking a motivated scientist at the interface of biology, macroecology and programming to join our interdisciplinary team at GEOMAR, Marine Evolutionary Ecology. The successful applicant will apply and further develop the visualization database AquaMaps ([www.aquamaps.org](http://www.aquamaps.org)), a species distribution model that makes large-scale predictions of the probability of occurrence of species in the world’s ocean. AquaMaps is used in varied areas of research and has contributed to many peer-reviewed papers, some published in high-ranking journals (e.g. [https://doi.org/10.1038/s41586-018-0273-1](https://doi.org/10.1038/s41586-018-0273-1), [https://doi.org/10.1038/s41586-021-03371-z](https://doi.org/10.1038/s41586-021-03371-z), [https://doi.org/10.1038/s41558-020-0773-5](https://doi.org/10.1038/s41558-020-0773-5)). AquaMaps is coordinated at GEOMAR and its modeling output is essential to a number of recently granted third-party funded projects, namely: “Ökosystemgerechtes Fischereimanagement in der deutschen AWZ” (AWZFISH) funded by the German Federal Agency for Nature Conservation, Adaptation of the Western Baltic Coastal Fishery to Climate Change (balt_ADAPT) funded by the FONA/BMBF, and Ecocentric management for sustainable fisheries and healthy marine ecosystems (EcoScope) funded by the European Union.

The specific objectives of the successful candidate would be:

1. To study changes in distribution of marine species in the German EEZ under future climate change scenarios.
2. To predict the impact that climate change will have on ecosystem functioning and fisheries.
3. To formulate guidelines for adaptive fisheries management by taking to account spatial distribution of species in response to climate change.

The successful candidate is expected to:

- Publish as first author a manuscript on the impact that climate change has on biodiversity (fish, marine mammals and invertebrates) in the German EEZ.
- Co-author a position paper on fisheries management under climate change.
- Participate in workshops dealing with impact of climate change on fish communities.
- Support AquaMaps involvement within the EcoScope and balt_ADAPT projects.
Other tasks will include:

- Support the conversion of web-based processes that generate AquaMaps products into an R package.
- Generate new maps/datasets as needed by new collaborations and projects.
- Handle data requests for AquaMaps data.
- Access, debug and update the AquaMaps web pages as needed.

Qualification

Required qualifications:

- Master degree or equivalent qualification in computer science, marine science or other related fields, preferably with work experience.
- Experience in databases (e.g. SQL, MS Access) and web programming (e.g. Apache, PHP).
- Experience in R programming.
- Knowledge in species distribution modelling/ecological niche modelling.
- Good English language skills.
- Quick comprehension and ability for interdisciplinary work.

Desired qualifications:

- Experience in GIS.
- Experience in Ecospace modelling.
- Knowledge in marine ecology, macroecology, fisheries or coastal management.
- Knowledge in biogeography and landscape ecology.

The position is available for a funding period of two years. The salary depends on qualification and could be up to the class 13 TVöD-Bund of the German tariff for public employees. This is a full-time position. Part-time models and flexible working time models are possible in principle.

GEOMAR Helmholtz Centre for Ocean Research Kiel seeks to increase the proportion of female scientists and explicitly encourages qualified female academics to apply.

GEOMAR is an equal opportunity employer and encourages scientists with disabilities to apply. Qualified disabled applicants will receive preference in the application process.

Please send your application for this post via email in a single pdf-file mentioning the keyword "FB_Biologist/Programmer" in the subject line. Please send your application not later than August 31, 2021 to the following email address:

bewerbung@geomar.de

As soon as the selection procedure has finished, all your application data will be removed according to data protection regulation.

For further information regarding the position and research unit, please contact Thorsten Reusch (Tel.: 0431 600-4550) or Marco Scotti (mscotti@geomar.de).
Please do not contact us by phone about the present state of procedures. However, we will answer all your questions if you send us an e-mail to bewerbung@geomar.de. In doing so, please refer to the keyword.

GEOMAR is a member of the Helmholtz Association and the German Marine Research Consortium (KDM). For further information, please visit www.geomar.de or www.helmholtz.de.

GEOMAR is committed to a non-discriminatory personnel selection. Our job advertisements address all people. We expressly renounce the submission of application photos.

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The TOTAL E-QUALITY award is presented to GEOMAR for efforts in terms of human resource management aimed at providing equal opportunity.