



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG



The Helmholtz Institute for Functional Marine Biodiversity (HIFMB) is a research institute located in Oldenburg. It researches marine biodiversity and its importance for the function of marine ecosystems. In doing so, it develops the scientific basis for marine nature conservation and ecosystem management. The HIFMB was founded in 2017 and is an institutional cooperation between the Alfred Wegener Institute in Bremerhaven, Helmholtz Centre for Polar and Marine Research (AWI), and the Carl von Ossietzky University in Oldenburg.

Programmer in the Ecosystem Data Science group (m/f/d)

Background

As a result of the tremendous advances in molecular biology during the past few decades, life scientists are swimming in 'data' (or drowning in it, depending on the interpretation). One of the primary goals of the Ecosystem Data Science group at the HIFMB (<http://ecosystem-data.science>) is to develop open-source software platforms, such as anvi'o (<https://anvio.org>) to empower life scientists in the era of data-enabled microbiology with computational strategies that can help them work with and visualize complex datasets. The position advertised here is for a programmer who would like to join us in our quest to develop open-source software and make it accessible to the community. This programmer position does not require any background knowledge in microbiology or ecology, however, developing new skills in these areas will be possible for those who may wish to learn more. The philosophy behind the platform anvi'o is detailed in this manuscript: [download](#)

Tasks

- (1) Improving the interactive interface (JavaScript) and/or backend libraries (Python) of anvi'o (<https://anvio.org>)
- (2) Helping anvi'o users with their technical questions online (primarily on Slack), and improving the documentation of the platform.
- (3) Helping the HIFMB scientists with their non-trivial needs of computation and data wrangling (i.e., implementing BASH or Python scripts for ad hoc needs)

Requirements

- Bachelor degree in computer engineering, computer science, machine learning, bioinformatics, data science, or a related field.
- Advanced knowledge of JavaScript, familiarity with Python programming language.
- Experience with git version management system and UNIX terminal environment.
- Familiarity with state-of-the-art web development tools and libraries.
- Interest in open-source software development, community, and outreach.
- Willingness to learn at least some amount of life sciences and work with a diverse group of international scientists.

Further Information

Please contact **Prof. Dr. Murat Eren** (meren@hifmb.de; +49(471)4831-2526) for further information.

This is a full-time position, limited to 2 years. It is also suitable for part-time employment. The salary will be paid in accordance with the Collective Agreement for the Public Service of the Federation (Tarifvertrag des öffentlichen Dienstes, TVöD Bund), up to salary level **11**. The place of employment will be **Oldenburg**.

The AWI is characterised by

- our scientific success - excellent research
- collaboration and cooperation - intra-institute, national and international, interdisciplinary
- opportunities to develop – on the job, aiming at other positions and beyond AWI
- a culture of reconciling work and family – an audited and well-supported aspect of our operation
- our outstanding research infrastructure – ships, stations, aircraft, laboratories and more
- an international environment – everyday contacts with people from all over the world
- having an influence – fundamental research with social and political relevance
- flat hierarchies – facilitating freedom and responsibility
- exciting science topics, with opportunities also in technology, administration and infrastructure

Equal opportunities are an integral part of our personnel policy. The AWI aims to increase the number of female employees and therefore strongly encourages qualified women to apply.

Disabled applicants will be given preference when equal qualifications are present.

The AWI fosters the compatibility of work and family in various ways and has received a number of awards as a result of this engagement.

We look forward to your application!

Please submit your application by **May 24th 2022**, exclusively online.
Reference number 22/87/G/Bio-b.

[Apply here](#)