



MAX-PLANCK-GESellschaft

The Max Planck Institute for Developmental Biology in Tübingen is a world-renowned research institute and part of the German Max Planck Society.

The Algal Development and Evolution Department is seeking a full time

## **Bioinformatician/Scientific Software Engineer**

The successful candidate is expected to play a key role in establishing organizational work flows for the management, analysis and dissemination of big data generated from Next-Generation Sequencing projects. The successful candidate will bear responsibility for all high-level computational needs within the Department and are thus expected to have excellent skills and knowledge of software development and high-performance computing. The role will also involve the guidance and mentorship for burgeoning bioinformaticians within the Department. He/she will help develop and maintain documented computational tools and pipelines for Department members to analyse Next-Generation Sequencing data, including DNA-seq, RNA-seq, ChIP-Seq and/or Hi-C data. The successful candidate is thus expected to interact closely with both experimental biologists but also the IT infrastructure unit at the institute. The projects within the Department involve various studies of brown algal model systems and focus on comparative genomics, sex chromosome evolution, chromatin analysis and developmental biology, so there is scope and strong incentive for the candidate to be involved in high-impact scientific publications.

The ideal candidate will have:

- A Masters or PhD in bioinformatics, data science, computational biology or related disciplines. A strong focus on computer science would be ideal.
- Strong skills in programming and data analysis, ideally with experience in Python, R and Bash scripting.
- Knowledge and experience with reproducible and modular workflows using tools such as Nextflow, Snakemake, Singularity and Anaconda for workflow and environment management are highly desirable.
- Experience with an HPC scheduling system such as SGE or SLURM.
- Experience with code versioning systems (Git) is required.
- Familiarity and experience with scientific research methods.
- Experience in the analysis of Next-Generation Sequencing data.
- Good interpersonal and communication skills, as well as the ability to work well both independently and as part of a team.
- Good command of English, both written and spoken.



MAX-PLANCK-GESELLSCHAFT

The payment level is based on the German state public service salary scale (TVöD-Bund) according to the training, qualifications and professional experience. The benefits correspond to the regulations of the public service.

The position is available from July 2021, and will remain opened until a suitable candidate is found. The initial contract is for one year potentially renewable for 4 years.

Send your application to [office\\_coelho@tuebingen.mpg.de](mailto:office_coelho@tuebingen.mpg.de)

Applications must include a cover letter, curriculum vitae, and names and contacts of a least two reference persons.

The Max-Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

The Max-Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.