

The Max Planck Institute for Biology Tuebingen is looking for a

Bioinformatician (m/f/d) Immunogenetics

The Max Planck Institute for Biology Tübingen and the Friedrich Miescher Laboratory are institutes of the Max Planck Society and conduct fundamental research in biology. The institutes consist of six scientific departments and several research groups with approximately 450 employees and scientific guests who work together in an international community and are supported by administrative, technical and scientific staff.

The Research Group Evolutionary Immunology (<https://www.bio.mpg.de/383280/evolution-of-adaptive-immunity-in-vertebrates>) addresses a number of cutting-edge research questions related to the development and evolution of the vertebrate immune system (for recent reviews see: Annu Rev Immunol 36, 19, 2018, doi: 10.1146/annurev-immunol-042617-053028; Nat Rev Immunol 2024 Sep 24. doi: 10.1038/s41577-024-01083-9).

To support these studies, we seek an experienced bioinformatician with a strong background in sequencing data analysis, statistics and, ideally, prior exposure to immunogenetics studies. This full-time position is open immediately and funded for two years, with the possibility of extension.

Your tasks

- Data management and organization
- Design of sequencing experiments
- Development and implementation of custom and reproducible data analysis pipelines with impactful reporting in collaboration with wet-lab scientists
- Processing and quality control of NGS datasets from both model and non-model organisms
- Reference genome and transcriptome assembly and annotation in non-model organisms
- Analysis of sequencing datasets from diverse methodologies (bulk/single-cell RNA-Seq, amplicon sequencing) and technologies (Illumina, PacBio, Nanopore), from both model and non-model organisms
- Analysis of sequence homologies and conservation
- Phylogenetic and comparative genomic analyses

Your profile

We are looking for a dedicated and motivated team player with strong communication skills and good command of the English language, holding a MSc or PhD degree in bioinformatics or biology with a clear computational component. The successful applicant will have a proven record in the analysis of large, high-dimensional genome-wide datasets and computational

skills (Python and/or R) in a Linux environment. Additional pluses include experience in the following:

- High-performance computing in a cluster environment (e.g. SGE)
- Modern software development practices, deployment (e.g. conda, Docker), and version control (git)
- Workflow management software (e.g. Snakemake; Nextflow) and documentation
- Advanced statistical data analysis and visualization

Our offer

- An interesting and responsible job
- Remuneration according to TVöD Bund, including employer-financed company pension scheme
- Job ticket allowance
- Wide range of training and further education opportunities
- Company health management, including yoga courses and health days

The Max Planck Society is an equal opportunity employer and committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, 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.

Your application

Please apply by 15 January, 2025 via our job portal at the following link: Job URL <https://jobs.tue.mpg.de/jobs/237>

If you have any questions about the position, please contact Thomas Boehm (Thomas.boehm@tuebingen.mpg.de).