The DRESDEN-concept Genome Center (DCGC), a jointly operated facility of the Technische Universität Dresden and the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG), and one of four DFG-funded competence centers for next generation sequencing in Germany, is offering a position as a

Bioinformatician / Postdoctoral fellow

starting as soon as possible. The full-time position is funded by the DFG through 31st of December 2021, and may be renewable.

The successful candidate will work in a team of bioinformaticians dedicated to supporting the projects and science taking place within the DCGC. Specifically, the **focus** of the candidate's work will be on the development, application and validation of novel approaches and workflows in the area of **integrated *de novo* genome assembly over multiple sequencing technologies**. As well as being an integral part of the DFG-funded competence center supporting projects referred by the DFG, the group is participating in world-leading genome projects such as the Vertebrate Genome project and the Bat1K project and the candidate will work in the building of the Center for Systems Biology Dresden, surrounded by research teams focused on many fundamental and applied problems in bioinformatics and computational biology applied to molecular and developmental biology. As such there will be the opportunity to participate in publications.

Tasks: performing data analyses and *de novo* genome assemblies in collaboration with biologists, development of analysis pipelines for whole genome sequencing data, establishment of data quality control metrices, bioinformatics consulting of users planning genome assembly projects, support of the assembly and sequencing team in the development and optimization of new protocols and methods, day-to-day data management of assembly projects

Requirements: Candidates should have a strong background in bioinformatics, computational biology or computer science and have a proven track record of productivity. Extensive experience in working with NGS data and knowledge in biology is essential. Prior knowledge in some of the following fields is advantageous:

- experience with scaffolding on secondary sequencing data such as Bionano Genomics Optical Maps, 10x Genomics Read Clouds, and HiC read-pairs.
- experience in de novo genome assembly with noisy long reads
- experience with workflow management systems: e.g. Snakemake, Nextflow
- experience with HPC cluster software and schedulers, e.g. Sun Gridengine, …

Having a PhD is an asset but not required. However, the ability for critical thinking and independent learning, and excellent written and oral communication skills in the English language as the operating language of the facility are essential.

Salary and social benefits will be in accordance with the regulations of the German TVöD Bund (salary agreement for public service employees) up to level EG 13 depending on qualifications and experience.

Candidates interested in this position should submit their application including a cover letter, CV and relevant certificates in a single pdf file and stating **Code 2019-Bioinformatician-long-read** through the online job application system:
https://recruitingapp-2443.umantis.com/Vacancies/428/Application/CheckLogin/2?lang=eng

of the MPI-CBG **until August 31, 2019**. For questions, please contact **Dr. Sylke Winkler** via email (winkler@mpi-cbg.de).

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.

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