Bioinformatician for Single-Cell-Sequencing-Data Analysis

German Cancer Research Center
Heidelberg, Germany

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The German Cancer Research Center is the largest biomedical research institution in Germany. With approximately 3,000 employees, we operate an extensive scientific program in the field of cancer research.

A joint position as postdoc/bioinformatician for computational single-cell sequencing analytics is available in the Computational Genomics and Systems Genetics group (https://www.dkfz.de/en/bioinformatik-genomik-systemgenetik) together with the Omics IT and Data Management Core Facility (ODCF). This project is connected to the Human Cell Atlas (https://www.humancellatlas.org), to which the Stegle group contributes as a member of the analysis working group. The Omics IT and Data Management Core Facility (ODCF) supports scientists in structuring and analyzing large omics datasets.

Job description:

We are looking for a (senior)bioinformatician to guide a single-cell core group that is responsible for the coordination, the establishment and harmonization of (clinical) analysis and data management workflows for single-cell sequencing data. The successful candidate will be part of an interdisciplinary research team developing and applying a diverse range of state-of-the-art methodology to improve the analysis and integration of various data types with a focus on single-cell data. He/she will apply bioinformatics and statistical methods to analyze, interpret and integrate high-throughput ‘omics’ data, including whole genome, RNA and different types of single-cell sequencing data. The position can involve both collaborative involvement in research-centric single-cell projects and/or infrastructure research and development.

Your responsibilities:

- Establishment of clinical omics-data analysis and integration workflows
- Collaboration, experimental design and analysis of clinical single-cell projects
- Infrastructure development, data management and/or integrative/interactive data visualization of multiple omics data
- Development of cloud-based analysis workflows
- The fellow will be jointly affiliated with the Stegle group and the Omics IT and Data Management Core Facility and collaborate with clinical partners at DFKZ and elsewhere.

Recent relevant publications:


Requirements:

The successful applicant will hold a Master as well as a doctoral degree or equivalent qualification in computer science, statistics, mathematics, physics, and/or engineering, or a degree in biological science with demonstrated experience in computational biology/bioinformatics.

Previous experience in developing and applying computational methods applied to large datasets is expected. Expertise in analysis and integration of multiomics data, the analysis of next-generation sequencing datasets is beneficial, as is communicating results in scientific conferences and papers.

We especially seek candidates with prior experience in the analysis and the management of NGS data. Proficiency with relevant scripting languages, and statistical data analysis tools such as R, MATLAB or Python is required.

The ideal applicant should have demonstrated the ability to work independently and creatively. The candidate should have excellent communications skills and be able to articulate clearly the scientific and technical needs, set clear goals and work within an interdisciplinary setting, communicating with other partners.

We offer:

- Interesting, versatile workplace
- International, attractive working environment
- Campus with modern state-of-the-art infrastructure
- Salary according to TV-L including social benefits
- Possibility to work part-time
- Flexible working hours
- Comprehensive further training program
- Access to the DKFZ International Postdoc Program
- Earliest possible start date: 01.01.2020
- Duration: The position is limited to 3 years with the possibility of prolongation.
- The position can in principle be part-time.

Application deadline: 06.12.2019

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