Bioinformatician for microbiome analyses and metagenomics
starting as soon as possible
(E13 TV-L, non-permanent position)

Your Tasks
At the Center for Biotechnology of Bielefeld University, the position of a bioinformatician is to be filled within a third-party funded project. The focus of the tasks is the investigation of microbial communities from biogas reactors applying methods of metagenome research.

In particular, the tasks include:

- acquisition of publicly available metagenome sequence data sets for the reconstruction of genome information of the biogas microbiome and development / application of suitable bioinformatics workflows
- microbiome characterization, including metabolic reconstructions, abundance determinations for abundant species, coexistence and network analyses, and correlation analysis regarding collected metadata
- development of big data management strategies, bioinformatics high throughput workflows, and further development of tools for microbiome analyses
- participation in a third-party funded research project

Your Profile
We expect

- scientific degree in natural sciences (e. g. bioinformatics, natural scientific computer science, or genome research)
- profound bioinformatics expertise in big data management and big data analysis for microbial communities
- expertise in the fields of metagenomics, genomics, transcriptomics, microbiology and biochemistry
- knowledge of HPC and cloud computing environments
- programming skills
- profound knowledge in description and implementation of workflows, especially with CWL or NextFlow
- very good knowledge of English (oral and written)
- ability and interest in active cooperation in an interdisciplinary research group
- willingness to present scientific results at national/international conferences and to publish in scientific journals
- structured and aim-oriented way of working
- cooperative and team-oriented work

Preferable qualifications

- knowledge in molecular biology, microbiology and 'omics'-technologies of microorganisms
- knowledge of relevant bioinformatics methods and tools for microbiome analyses based on metagenome sequence data
- knowledge in next-generation-sequencing (NGS) technologies and corresponding bioinformatic analysis methods
- profound programming skills in Python

Remuneration
Salary will be paid according to Remuneration level 13 of the Wage Agreement for Public Service in the Federal States (TV-L). As stipulated in § 2 (1) sentences 1 WissZeitVG (fixed-term employment) the contract will end on July 31, 2022. In accordance with the provisions of the WissZeitVG and the Agreement on Satisfactory Conditions of Employment, the length of contract may differ in individual cases. The employment is designed to encourage further academic qualification. In principle, these full-time position may be changed into a part-time position, as long as this does not conflict with official needs.

Bielefeld University is particularly committed to equal opportunities and the career development of its employees. It offers attractive internal and external training and further training programmes. Employees have the opportunity to use a variety of health, counselling, and prevention programmes. Bielefeld University places great importance on a work–family balance for all its employees.

Application Procedure
For full consideration, your application (incl. letter of motivation, CV and certificates) should be received via either post (see postal address below) or email (a single PDF) document sent to asczyrba@cebitec.uni-bielefeld.de by the 11th of July 2019. Please mark your application with the identification code: wiss19121. Please do not use application portfolios and send only photocopies of original documents because all application materials will be destroyed at the end of the selection procedure. Further information on Bielefeld University can be found on our homepage at www.uni-bielefeld.de. Please note that the possibility of privacy breaches and unauthorized access by third parties cannot be excluded when communicating via unencrypted e-mail. Information on the processing of personal data is available http://www.uni-bielefeld.de/Universitaet/Aktuelles/Stellenausschreibungen/2018_DS-Hinweise.pdf.

Postal Address
Universität Bielefeld
Technische Fakultät
Computational Metagenomics
Herrn Dr. Alexander Sczyrba
Postfach 10 01 31
33501 Bielefeld

Contact
Name: Dr. Alexander Sczyrba
Phone: +49 521 106-2910
Email: asczyrba@cebitec.uni-bielefeld.de