The Faculty of Technology, research group “Multiscale Bioengineering”, offers a part-time research position (PhD position) starting as soon as possible (E13 TV-L, non-permanent position)

Your Tasks
The research group “Multiscale Bioengineering” was founded in April 2017 at the Faculty of Technology of the University of Bielefeld with the aim to establish and apply novel microfluidic methods and tools in biotechnology and bioprocess engineering. A PhD position is to be filled within the third-party funded project “Single-cell mass balancing for synthetic co-cultures (SiMBal): Quantitative, spatio-temporally resolved analysis of mass exchange between microbial cells”. The focus of the project is the characterization and quantification of microbial interactions on single-cell level applying novel microfluidic techniques. In particular, the tasks include:

- research activities in the field of development and establishment of microfluidic methods for single cell analysis and single-cell cultivation of synthetic mixed cultures. This includes the fabrication and application of microfluidic single-cell systems as well as the image-based evaluation and interpretation of single-cell data. The main focus is on the measurement of growth rates at different substrate concentrations and the determination of resulting kinetics (75 %)
- elaboration, documentation and presentation of the results, preparation of publications (20 %)
- collaboration in academic self-administration and project management (5 %)

We offer a very exciting field of research activities at the interface between biotechnology and microfluidics as well as scientific development opportunities in an interdisciplinary environment and an excellent working atmosphere. Further, we will give you the opportunity to participate in shaping the profile of the research group “Multiscale Bioengineering” in an active manner and to present your data at international conferences and participate in workshops etc.

Your Profile
We expect:

- relevant university degree in the field of molecular biotechnology, bioprocess engineering, microbiology, biophysics, life science or equivalent research fields
- basic knowledge and experience in the field of biotechnology, in particular in the cultivation and characterization of microorganisms
- very good English communication skills, both written and spoken
- ability to work independently, conscientiously and diligent
- strong organizational and coordination skills
- cooperative and team-oriented way of working
- openness to interdisciplinary topics, especially at the interface between biotechnology, biophysics and bioinformatics
- interest in biological and biotechnological topics
- interest in single cell analysis
- interest in computer-assisted image analysis and evaluation

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 of the WissZeitVG (fixed-term employment), the contract will end after three years. 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. The position is advertised as a 65 % /30h/week job. In individual cases, this percentage may be reduced on request, 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, counseling, and prevention programmes. Bielefeld University places great importance on a work-family balance for all employees.

Application Procedure
For full consideration, your application should be received via either post (see postal address below) or email (a single PDF document sent to alexander.gruenberger@uni-bielefeld.de by the 5th of September 2019). Please mark your application with the identification code: wiss19173. 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 http://www.uni-bielefeld.de. Please note that the identity of inquiry reservers and unauthorized access by third parties cannot be ensured when communicating via unencrypted e-mail. Information on the processing of personal data is available at http://www.uni-bielefeld.de/universitaet/Aktuelles/Stellenausschreibungen/2018_DS- Hinweise.pdf.

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Bielefeld University has received a number of awards for its achievements as an employer. Our university employer and has been recognized as a family-friendly university. The university welcomes applications from women. This is particularly true with regard both to academic and technical posts as well as positions in information technology as well as the skilled crafts and trades. Applications are handled according to the provisions of the Equal Treatment Act. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.