The Faculty of Technology, research group “Multiscale Bioengineering”, offers a part-time research position (PhD position) starting February 1st, 2020

(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 new microfluidic methods and tools in biotechnology and bio processoengineering. A PhD position is now offered within the third-party funded project “AMPLIFY – Antimicrobial peptide pipelines and microfluidic systems” (PhD position). Starting February 1st, 2020, the successful candidate is expected to work within the research group “Multiscale Bioengineering” within the third-party funded project “AMPLIFY – Antimicrobial peptide pipelines and microfluidic systems” subject to the final promise of financing. The focus of the project is the development of novel microfluidic systems for the analysis and monitoring of antimicrobial peptides (AMPs).

In particular, the tasks include:
• Research activities in the field of development and establishment of microfluidic methods for the qualitative and quantitative analysis of antimicrobial peptides (AMPs) through microbial sensor cells. This includes the fabrication and application of microfluidic systems as well as the development and establishment of experimental analysis workflows of different AMPs and sensor strains that will be provided by project partners.
• 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
The successful candidate is expected to have:
• Relevant university degree in the field of molecular biotechnology, bioprocess engineering, bio-mechatronics, 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
• Basic knowledge and experience in the fabrication and/or application of microfluidic systems
• Openness to interdisciplinary topics, especially at the interface between biotechnology, biosciences and bioinformatics
• Have an interested in working with industry and other academic partners to develop novel technologies and techniques to improve bioprocesses
• Commitment to high quality research
• Willingness to learn new methods
• Excellent English communication skills, both written and spoken
• Takes initiative, self-motivating, able to set goals and work to deadlines
• Strong organizational and coordination skills
• Ability to work collaboratively and as part of a team

Preferable qualifications
• Experience in drafting manuscripts with ready-to-submit standards for appropriate peer-reviewed journals.
• Knowledge and experience in the field of live-cell imaging
• Knowledge and experience in the field of microelectronics and bio-mechatronics
• Knowledge and experience in the field of low-cell imaging
• 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 § 21 (7) paragraph 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 65 % part-time 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 conditions for research and teaching with regard to the qualification and care of employees, for example through training and further training with regard to the qualification and care of employees.

Bielefeld University offers a state-mandated pension contribution.

Application Procedure
For full consideration, your application should be received via either post (see postal address below) or email (a single PDF document) to Herrn Jun.-Prof. Dr. Alexander Grünberger by January 16th, 2020. Please mark your application with the identification code: wiss19285. Please do not use application portfolio 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 at

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Bielefeld University has received a number of awards for its achievements as an equal opportunity 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 state statutes on equal opportunity. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.