The Faculty of Physics offers a full-time research position starting from 1st of August 2018

(E13 TV-L, non-permanent position)

Your Tasks
The PhD candidate will focus her/his research on the development of high-speed structured illumination microscopy methods with instant, GPU-based image reconstruction. He/she will develop novel soft- and hardware for high-speed super-resolution optical microscopy and characterize living endothelial cells and liver tissue in close collaboration with partners from within our network. The candidate will profit from training programs organized by partners of the DeLIVER network, providing PhD students with broad competences, experience, and skills in cutting-edge interdisciplinary research related to cutting-edge optical methods and biomedicine. The project involves a series of secondments to academic and industrial partners in the United Kingdom, Sweden, and Norway.

Your Profile
We expect
- scientific degree in physics or engineering
- several years of experience in the programming and the application of image processing algorithms, such as denoising methods or the reconstruction of super-resolution optical image data
- several years of experience with programming languages, such as Matlab, Python, C++, or Java
- multiple years of experience in the design and realization of super-resolving optical microscopes
- excellent knowledge of the English language in written and spoken form
- collaborative and team-oriented work habits
- interest in developing instrument control based on microcontrollers and FPGAs
- excellent presentation and speaking skills
- collaborative and team-oriented work habits
- interest in developing instrument control based on microcontrollers and FPGAs

Since the position is funded by third party funding, the funding agency lists the following requirements for eligibility:
- by the time of recruitment by the host organization, researchers must not have received or carried out their main activity (work, studies, etc.) in Germany for more than twelve months in the last three years. Short stays, such as holidays, civil service, or the time spent to receive refugee status under the Geneva convention are not included.
- by the time of recruitment by the host organization, candidates must not have received a doctorate or equivalent.
- by the time of recruitment by the host organization, candidates must be in the first four years (full-time equivalent) of their research career. Full-time research experience is measured from the date when a researcher obtained the degree which formally entitled him or her to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded, irrespective of whether or not a doctorate is or was ever envisaged.
- by the time of recruitment by the host organization, candidates must have not received a doctorate or equivalent.
- by the time of recruitment by the host organization, candidates must be in the first four years (full-time equivalent) of their research career. Full-time research experience is measured from the date when a researcher obtained the degree which formally entitled him or her to embark on a doctorate, either in the country in which the degree was obtained or in the country in which the researcher is recruited or seconded, irrespective of whether or not a doctorate is or was ever envisaged.

For detailed information please refer to:

Remuneration
Salary will be paid according to Remuneration level 13 of the Waga Agreement for Public Service in the Federal States (TV-L). As stipulated in § 2 (1) sentence 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. In principle, the full-time position may be changed into part-time position, as long as this does not conflict with official requirements.

Bielefeld University has received a number of awards for its achievements in the provision of equal opportunity 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 and Trades and Craft. Applications are handled according to the provisions of the state equal opportunity statute. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.

Application Procedure
For full consideration, your application should be received via either post or email (a single PDF) document sent to thomas.huser@physik.uni-bielefeld.de by the 21st of June 2018. Please mark your application with the identification code: wiss18123. 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.

Postal Address
Universität Bielefeld
Fakultät für Physik
P.O. Box: 10 01 31
33501 Bielefeld
Germany

Contact
Name: Prof. Dr. Thomas Huser
Phone: (+49) 521 106 – 5451
Email: thomas.huser@physik.uni-bielefeld.de

Bielefeld University has received a number of awards for its achievements in the provision of equal opportunity 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 and Trades and Craft. Applications are handled according to the provisions of the state equal opportunity statute. Applications from suitably qualified handicapped and severely handicapped persons are explicitly encouraged.