# STELLENMARKT

UNIVERSITÄT HEIDELBERG
ZUKUNFT SEIT 1386

Gültig ab dem 31.05.2022
Aushang bis zum 30.06.2022

**214/2022**

The CellNetworks Core Technology Platform at Heidelberg University is searching for:

## Super resolution microscopy specialist (f/m/d)

The CellNetworks Core Technology Platform supports the development of scientific infrastructures and facilities that implement and provide advanced technologies to the research community at Heidelberg University. Recently, a super-resolution MINFLUX nanoscope has been set up on campus, and the platform is looking for a super resolution microscopy expert to develop the application of the MINFLUX technology as well as super resolution microscopy in general. The position is to be filled as soon as possible (39,5h /week). The successful candidate will be embedded in an operational framework of the two existing imaging infrastructures at Heidelberg University: Nikon Imaging Center (NIC, https://www.uni-heidelberg.de/nic/) and Infectious Diseases Imaging Platform (IDIP, https://www.idip-heidelberg.org/) but will also interact with the larger community network of super resolution microscopy specialists in Heidelberg and beyond (e.g., with colleagues at the European Molecular Biology Laboratory (EMBL) and Max-Planck Institute for Medical Research).

**Job description:**
We are seeking a highly enthusiastic candidate with skills in the application of super resolution microscopy technologies in life science research. The position will involve a variety of tasks including but not limited to:

- Providing support in the application of super-resolution microscopy in life science research with particular focus on the application of the MINFLUX technology
- Supporting users with project design, sample preparation and data acquisition across different institutions on campus
- Interpreting images and scientific results in collaboration with users to propose and perform subsequent experiments and procedures
- Serving on a MINFLUX Review Panel to review the feasibility and technical justification of project proposals
- Developing and modifying standard protocols for training sessions
- Executing regular maintenance of the relevant instrumentation. Developing and modifying maintenance protocols on an ongoing basis. Interpreting quality control information and initiating repairs if necessary. Documenting all equipment service.
- Testing / benchmarking commercial and academic workflows and reagents in the field of super resolution microscopy
- Developing and optimizing new super resolution methods tailored to research questions addressed by the users
- Organizing workshops and courses tailored to the needs of the super-resolution community
- Contributing to and building on corporate relationships with vendors in the field

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**You have:**

- A PhD degree in the life sciences, physics, chemistry or related fields
- Understand and have hands-on experience in quantitative light microscopy and technical knowledge on imaging instrumentation. Experience with super resolution technologies such as Single Molecule Localization Microscopy (SMLM) and MINFLUX would be an advantage.
- Broad molecular and cell biology knowledge. Knowledge on diverse model systems used in biomedical research is an advantage
- Experience with biological sample preparation for advanced light microscopy. Extensive knowledge on labelling techniques, dyes and fluorophores would be an advantage
- Experience with bioimage data analysis and visualization. Familiarity with relevant image analysis software packages such as ImageJ
- Strong interpersonal skills for working with users and principal investigators with diverse cultural backgrounds within the research community
- High self-motivation, independence, analytical and solution-oriented workstyle
- Ability to work as part of a team as well as strong organisational skills
- An interest in interdisciplinary research and technology development across institutions
- Fluency in spoken and written English

**What we offer:**

- An international and attractive working environment
- Working with cutting edge technologies
- Inter-institutional collaborations
- Salary in accordance to TV-L (E13), including benefits such as the Jobticket
- Internal training programme

The position is initially limited until 12/2025 and available for immediate start. Applications should be addressed to Dr. Ulrike Engel and Dr. Vibor Laketa and sent to office@cellnetworks.uni-heidelberg.de in one single PDF-file that includes a letter of motivation, CV and names of 2-3 referees.
Closing date for applications: **June 30, 2022**

Heidelberg University stands for equal opportunities and diversity. Qualified female candidates are especially invited to apply. Disabled persons will be given preference if they are equally qualified. Information on job advertisements and the collection of personal data is available at www.uni-heidelberg.de/en/job-market.