



Conducting research for a changing society: This is what drives us at Forschungszentrum Jülich. As a member of the Helmholtz Association, we aim to tackle the grand societal challenges of our time and conduct research into the possibilities of a digitized society, a climate-friendly energy system, and a resource-efficient economy. Work together with around 6,400 employees in one of Europe's biggest research centres and help us to shape change!

Physicists, Biologists, and Biophysicists work together at the Institute of Biological Information Processing – Cellular Structural Biology (IBI-6) to deepen our knowledge on the structure, dynamics and function of complex biomacromolecular assemblies with state-of-the-art equipment at the interface between physics and molecular biology. Our goal is to employ fluorescence based methods to study protein properties and interactions with a high sensitivity and selectivity. In particular single molecule techniques provide information on the distribution of parameters characterizing the biological macromolecules. The successful candidate will be part of a team using state-of-the-art equipment (TIRF microscope for simultaneous dual color imaging, confocal microscope with pulsed excitation and multi-channel detection) which investigates structural and dynamical properties of proteins and protein complexes. Contribution to our research activities in the field of single molecule FRET studies with diffusing and surface tethered molecules will shine light to fundamental biological processes, necessary for further development of biotechnological applications.

We are offering a

Postdoc in the field of Single Molecule Fluorescence Microscopy

Your Job:

- Research and development in the field of single molecule fluorescence based techniques
- Working related to a DFG-Grant project which has a focus on co-translational mechanisms of protein folding
- Studying protein ligand interactions at physiological relevant concentrations on single molecule level to application of nano-apertures like zero mode waveguides (ZMWs)
- Publishing the results of your research in international peer reviewed journals
- Interdisciplinary teamwork, as well as the supervision of PhD students

Your Profile:

- University degree (master) in Physics, Chemistry or Biochemistry and a Doctorate in a related field
- Extensive knowledge of high resolution fluorescence microscopy and spectroscopy
- Comprehensive experience in conducting research projects in structural biology by using fluorescence based single molecule techniques
- The ability to communicate and work effectively in an interdisciplinary and international team
- A structured and systematic approach to problem solving

Our Offer:

- Being part of a team using state-of-the-art equipment (TIRF microscope for simultaneous dual color imaging, confocal microscope with pulsed excitation and multi-channel detection) which investigates structural and dynamical properties of proteins and protein complexes
- Exciting working environment on an attractive research campus with excellent infrastructure, located between the cities of Cologne, Düsseldorf, and Aachen
- A highly motivated group as well as an international and interdisciplinary working environment at one of Europe's largest research establishments
- Chance of participating in (international) conferences and project meetings
- Further development of your personal strengths, e.g. via a comprehensive further training programme
- Flexible working hours and various opportunities to reconcile work and private life
- Limited for 2 years with possible longer-term prospects
- Full-time position with the option of **slightly reduced** working hours
- Salary and social benefits in conformity with the provisions of the Collective Agreement for the Civil Service (TVöD)

Forschungszentrum Jülich promotes equal opportunities and diversity in its employment relations. We also welcome applications from disabled persons.

We look forward to receiving your application until 16.12.2020 via our [Online Recruitment System!](#)

Questions about the vacancy?

Get in touch with us by using our [contact form](#).

Please note that for technical reasons we cannot accept applications via email.

www.fz-juelich.de

