

# Master thesis – Development of a Nanotechnological Measurement Method for the Analysis of Molecular Binding Behavior

Munich, Germany

We are a growing provider of scientific instruments for the analysis of molecular interactions and are seeking highly motivated master students to join our team for the development of our innovative products. We welcome applications from high-potentials who want to use their innovative minds to develop novel biophysical assays. We are offering a master thesis position for a highly qualified and motivated young researcher to join our team in Munich!



## Project Description

You will be part of an interdisciplinary R&D team (biophysics, biochemistry, molecular biology) and carry out the project under guidance of experienced scientists:

- Make use of DNA origami nanostructures for the characterization of molecular interactions
- Contribute to the development of novel biophysical assays
- Plan, execute and analyze assays to determine biomolecular interaction kinetics
- Compile and present scientific reports and publications

## Requirements

- Student of biophysics, biochemistry, or similar
- Sound knowledge of molecular biophysics
- Experience with biophysical methods for molecular interaction analysis (SPR or other) are a plus
- Experience with fluorescence-based methods (spectroscopy, energy transfer, imaging, ...) are a plus
- Motivation, enthusiasm and independent work style
- Great team spirit, having fun collaborating
- Excellent communication and presentation skills, fluent in English

Get in touch with us!

### Location & Travel:

- the position is based in Martinsried, south of Munich, Germany

### We offer:

- a fun and dynamic work environment in a young, multicultural team
- scientific training in the biophysical analysis of molecular interactions
- a great international team
- diversified and fast-paced projects, a stimulating and ever-challenging environment

### About Us

Dynamic Biosensors is a young biotech company based in Munich, Germany, and San Diego, CA, focused on the development and marketing of our pioneering and award-winning **switchSENSE**<sup>®</sup> technology for molecular interaction analysis. We provide solutions to academic and industry partners in the areas of biophysical analysis and drug discovery. Beyond the science, Dynamic Biosensors is buzzing with ideas and creative people, and is fueled by an entrepreneurial spirit.

Our just-launched **helix**<sup>®</sup> line of modular instruments pushes the boundaries of what has previously been possible in biosensing. It provides a higher information content than any other biosensor by enabling the simultaneous analysis of binding kinetics, affinity, and conformational changes in proteins and nucleic acids. It outperforms state-of-the-art systems in resolving the fastest binding kinetics as well as the most stable interactions. Its two-color detection capability offers unique possibilities in the characterization of complex binders, for instance, bispecific antibody formats for cancer immunotherapy.

Learn more about **switchSENSE**<sup>®</sup>, biosensing with electrically actuated DNA nanolevers, and **helix**<sup>®</sup> at [www.dynamic-biosensors.com](http://www.dynamic-biosensors.com).

### Contact Us

Please send your application and CV as a single PDF document to [careers@dynamic-biosensors.com](mailto:careers@dynamic-biosensors.com)

Please reference: Job ID = Masterthesis, October 2020

**DISCOVER MOLECULAR INTERACTIONS! Together.**