

## When teamwork matters.

We believe that everyone counts and that the right people can do great things together.

### JOIN OUR TEAM

At NanoTemper Technologies, we have a big mission — to enable researchers to do the best science of their lives. Since 2008, we've been developing, producing and selling cutting-edge instruments for drug discovery. With headquarters in Munich, 10 subsidiaries and 150 employees all around the world, we are known for our local and personalized customer-centric approach. We've also won numerous company and product awards, namely "Innovator of the Year" for the Top 100 companies in Germany in 2017 and 2018 as well as "Top-Employer 2020".

### PhD in biophysics as part of the NeuroTrans Project – a Marie Skłodowska-Curie Innovative Training Network (m/f/d), Munich

Data allows to explore and interpret processes. But rarely does one measurement give enough insight to fully understand complex processes like substrate binding and transport. Hence it is very important to analyse as much data from various methods as possible and learn from it. Machine learning algorithms look for patterns in big data sets which then allow us to make predictions about new data. The more diverse and bigger the data set is the more robust will be the outcome. Hence the core objective is to develop a cloud-based data pipeline that then allows us to run advanced machine learning algorithms to gain insight of thermodynamic and kinetics parameters driving substrate binding and transport in vesicles and cells.

#### Responsibilities

- Develop a data pipeline of protein-ligand binding measurements gained from different measurement methods
- Analyze data to gain insight in the affinity, enthalpy and entropy of ligand-protein interaction for ligands of GAT1, DAT, and LeuT
- Willingness to collect data with NTT devices if necessary
- Develop software for automated data analysis including machine learning algorithms
- Working flexibly and creatively on challenging problems in a dynamic environment

#### We offer

- Receive a PhD from the Ludwig-Maximilians-University (LMU) Munich ranked 32 in World University Rankings by Times Higher Education
- Opportunities to have influence and ability to take ownership of your own work
- Investment in personal development and emphasis in learning new skills
- Great office location in Munich with a mountain view close to the Isar river
- Gross salary for 3 years of 3772€/month plus family allowance of 250€/month if applicable

#### Your background

- Master's degree in biophysics, bioinformatics, computer science, software engineering, or related fields
- Experience in software engineering desirable
- Passion for web-technologies, databases and data science
- Meeting the hiring criteria outlined on the NeuroTrans webpage [www.neurotrans.org](http://www.neurotrans.org) like not having lived in Germany in the last three years

#### About NeuroTrans

NeuroTrans is a MSCA grant of EU's H2020 programme. It will establish an international training program by forming a highly interdisciplinary team of world-leading European researchers from 9 universities and 5 industry partners. The vision of the NeuroTrans project is:

- to reach an comprehensive understanding of neurotransmitter : sodium symporter (NSS) function reaching from the molecular level to human pathologies,
- to investigate how psychoactive substances target these transporters,
- to elucidate how disruption of transporter function contributes to neuropsychiatric disease pathobiology.

Apply until 22.06.2020 by following the application process at [www.neurotrans.org](http://www.neurotrans.org)