



The **Leibniz Institute for Food Systems Biology at the Technical University of Munich (Leibniz-LSB@TUM)** is a research institution of the Leibniz Association that combines methods of biomolecular basic research with analysis methods of bioinformatics and analytical high-performance technologies to investigate the complex interplay between the human organism and food ingredients.

Our research group "Nucleic Acid Research" at Leibniz-LSB@TUM is looking for a

Post Doc (m/f/d)

in Nucleic Acid Chemistry to start on 01.02.2021 (100% TV-L 13). The position is funded until December 31, 2022 with the possibility for extension.

Research project:

The position will be in the interdisciplinary nucleic acid chemistry group led by Dr. Mark M. Somoza. The research will focus on the design and chemical synthesis of ultra-large-scale nucleic acid oligonucleotide libraries by means of maskless photolithography. The oligonucleotide libraries will be tested using standard nucleic acid analytical approaches, as well as by next generation sequencing. The research also encompassed the development and validation of enzymatic approaches to the amplification and purification of ultra-large-scale oligonucleotide libraries. The products of the chemical and enzymatic synthesis will then be used to capture plant tissue transcriptomes at high spatial resolution, followed by sequencing, and analysis of sequencing data in the context of understanding biotic and abiotic influence on the growth and nutritional qualities of plants.

Essential requirements:

- PhD degree in Chemistry, Biological Chemistry, Molecular Biology, or closely related fields.
- Experience in synthetic and/or analytical approaches to nucleic acid research.
- Excellent written and verbal English communication skills.
- A good publication track record based on solid laboratory and analytical skills.
- Ability to work both independent and collaboratively across disciplines.
- High self-motivation.
- Willing to travel nationally and internationally for training.

Desirable:

- Experience with microarrays and microarray synthesis
- Experience with HPLC, MS and NMR.
- Experience with DNA and RNA sequencing, including sample preparation and data analysis.

Work environment:

Together with internationally recognized experts, you conduct research aimed at improving foodstuffs and promoting healthy human nutrition.

In addition to a varied workplace where your performance counts, we offer

- a performance-related salary in accordance with TV-L, in-line with your personal qualifications and the personal prerequisites
- an interesting and stimulating research atmosphere for university research
- a motivated team that is looking forward to welcoming you
- flexible working times enabling, a good compatibility of work and family
- company pension scheme



In the case of essentially reciprocal suitability, severely-disabled applicants as defined SGB IX will be preferred.

Please address any research related questions to Dr. Mark Somoza (m.somoza.leibniz-lsb@tum.de) and send your application containing a cover letter explaining your background and motivation, your comprehensive CV and publications list, and names of three potential referees electronically as pdf files to the following address, citing the reference number **2021-03-S1-MS**:

Anja Magalowski (Human Resources Department) recruiting.leibniz-lsb@tum.de
(please cc m.somoza.leibniz-lsb@tum.de)

Take advantage of this opportunity and contact us!