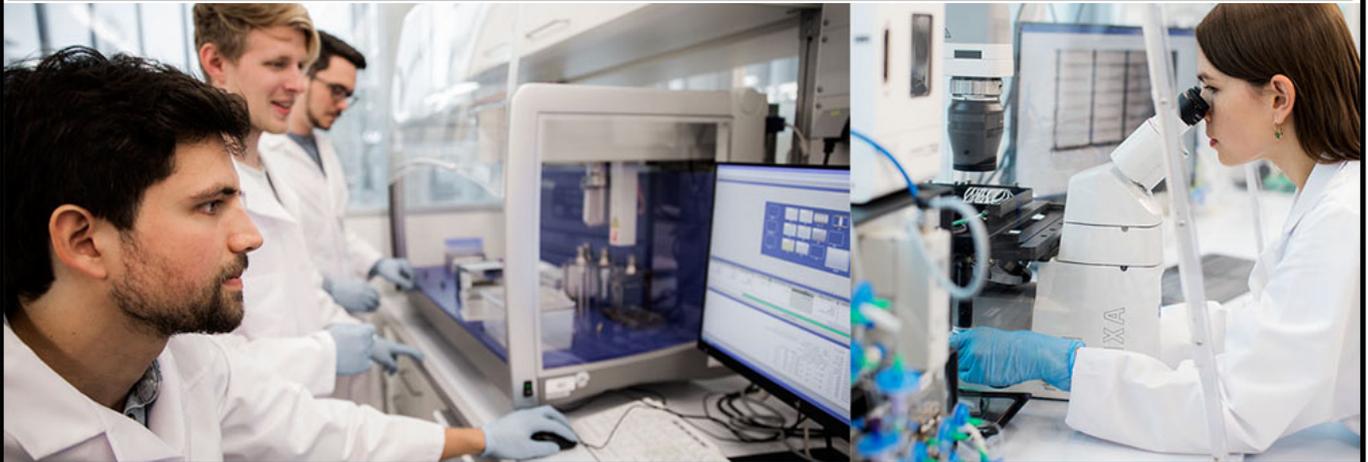


# HelmholtzZentrum münchen

German Research Center for Environmental Health



As German Research Center for Environmental Health, Helmholtz Zentrum München pursues the goal of developing personalized medical approaches for the prevention and therapy of major common diseases such as diabetes mellitus, allergies and lung diseases. To achieve this, it investigates the interaction of genetics, environmental factors and lifestyle.

Are you passionate about science, full of ideas and innovative potential that drive change and enjoy working in an international, fast-paced environment? Are you motivated by the societal impact of research and seek an opportunity to play an instrumental part in the development of emerging technologies for biology and healthcare? Then the Institute of Biological and Medical Imaging (IBMI) at the Helmholtz Zentrum Muenchen (HMGU) and its integrated Chair of Biological Imaging (CBI) at the Technical University of Munich (TUM), Germany, is the ideal environment for you!

IBMI is the cornerstone of a rapidly expanding bioengineering ecosystem in the Munich science area; including the Helmholtz Pioneer Campus and the Research Center TranslaTUM, which integrate bioengineering with vascular and metabolic disorders and oncology, respectively. IBMI scientists develop next-generation imaging and sensing methods to measure previously inaccessible properties of living systems, hence, catalyzing breakthroughs in biology and medicine. Comprising 11 inter-disciplinary laboratories and scientists from more than 25 countries, IBMI offers state-of-the-art infrastructure for innovative research and a perfect environment to accelerate your career. Our research aims to shift the paradigm of biological discovery and translation to address major health challenges of our time and develop the medical solutions of tomorrow.

The research group for Cellular Engineering is part of IBMI and focuses on developing genetically encodable molecular labels and sensors for innovative imaging schemes, primarily fluorescence and optoacoustic imaging. We develop labels based on strategies of protein engineering but are also interested in reprogramming whole cells to that effect. The developed molecular tools are employed on the level of single mammalian cells as well as whole organisms.

Join our team and be part of our rich and dynamic research culture of enquiry and

innovation. IBMI researchers come from the top ranks of physics, engineering, chemistry, biology and medicine and our pipeline frequently yields high-impact papers, successful technology spin-offs and commercialization. Our research is regularly featured in major news channels and received broad recognition including several prestigious awards and considerable research funding from national and international sources.

To drive the development of imaging labels and sensors in the context of immune and tumor biology, we now seek a highly qualified and motivated

## Postdoc in Cell Engineering (f/m/d) 2019/0240

### **The mission**

The candidate will work on the development of new labels and sensors on the molecular level. Foremost, the candidate will be pivotal in strengthening our efforts to showcase cutting edge applications of developed labels primarily in the fields of immune and tumor biology. The candidate will establish functional labels in mammalian systems and optimize their use for specific research questions in above fields. Such work will be conducted in close collaboration with other laboratories of TUM and HMGU that are leading in the respective research areas.

Hence, the position is an exciting interface between development of molecular tools, imaging, as well as answering pressing biomedical questions. Accordingly, the ideal candidate should combine both, a strong interest in developing imaging tools on the molecular level and a motivation to enter diverse biomedical fields to a level that facilitates show-case applications of our labels in the respective fields.

### **Your profile:**

The successful applicant must have the following:

- High motivation, curiosity, and commitment to scientific excellence
- A Degree and Ph.D. in cell- and molecular biology, biochemistry or similar field
- Background in cell biology and molecular biology
- Experience in mammalian cell culture
- Knowledge on cellular signaling cascades and regulation mechanisms, immunology or tumor biology is an advantage
- Interest in imaging and spectroscopy
- Team player skills and enthusiasm to work in a multi-disciplinary, collaborative environment
- Excellent command of the English language

### **What we offer you**

A challenging and versatile field of work providing you with the freedom to follow your instinct and be creative. With the help of extensive and goal-orientated professional development measures and career-building programmes we encourage you to grow as a person. To ensure a good work/life balance we assist you with flexible working hours, in-house health management, a nursery, child

care subsidy where required and an “Elder Care” concept as well as other consultation and support options.

Munich, with its numerous lakes and its vicinity to the Alps, is considered to be one of the cities with the best quality of life worldwide. With its first-class universities and research institutes it offers an intellectually stimulating environment.

Remuneration and social benefits are based on the collective wage agreement for public-sector employees at federal level (TV EntgO Bund).

The position is (initially) limited to two years, but under certain circumstances an extension can be arranged.

The activity involves special knowledge and experience specific to own scientific skills.

As a holder of the Total E-Quality Award, we promote equality of opportunity. To increase the share of women in management positions we very much welcome the respective applications. Qualified applicants with physical disabilities will be given preference.

**Curious?** If you have further questions, simply contact **Dr. André Stiel** on **+49 89 3187 3972**, who will be happy to be of assistance.

We are looking forward to receiving your comprehensive online application including your letter of motivation, CV and academic transcripts of records preferably in English.

[Apply now](#)

**Dr. André Stiel**

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The award highlights  
our commitment of  
gender equality.

Altogether 40 000 people currently work in its 19 scientific-technical and biological-medical research centers. The Association's annual budget amounts to around 4.7 billion Euros.

**HELMHOLTZ**  
RESEARCH FOR GRAND CHALLENGES