



CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

**YES.**

We'll show you how at Fraunhofer.

CALLING ALL FUTURE EXPERTS IN ASSAY DEVELOPMENT AND HTS! AT FRAUNHOFER MAKE THE MOST OF YOUR TALENTS BY JOINING OUR TEAM IN REGENSBURG. POSTS ARE IMMEDIATELY AVAILABLE FOR:

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## POSTDOC (M/F) IN ASSAY DEVELOPMENT AND HIGH-THROUGHPUT SCREENING (MATERNITY LEAVE REPLACEMENT)

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The Fraunhofer ITEM has successfully been offering contract research for all aspects of human health for more than 30 years. The expertise available at the institute is concentrated in eight areas. Our wide range of competencies enables us to offer complete solutions - from the idea to the safe product.

In the division of "Personalized Tumor Therapy" at the Fraunhofer Institute for Toxicology and Experimental Medicine in Regensburg, we are investigating metastasis of solid tumors and developing new diagnostic test and therapeutic procedures for systemic cancer.

For our high-throughput drug and target discovery group we are looking for a postdoctoral fellow who will contribute to developing patient-derived preclinical tumor models and functional high-throughput screening assays for guiding personalized therapy decisions and drug discovery/repurposing.

### What we expect from you

- PhD degree in biology, biochemistry, biotechnology, engineering, molecular medicine or other relevant fields.
- Experience in development, validation and execution of functional cell-based or high-content imaging assays in 96- and 384-well plate format for high-throughput compound and/or for genetic screens (CRISPR, RNAi, ...).
- Solid experience in mammalian cell culture is required (Experience in isolation, expansion and characterization of primary tumor cells and tumor-associated immune cells and/or tumor organoid or other 3D models would confer an advantage).
- Background in cancer biology (especially immuno-oncology and/or precision medicine) and/or preclinical drug discovery and *in vitro* pharmacology would be an asset.
- Familiarity with liquid handling automation and compound library management is advantageous.

- Interest in high-content image analysis, developing pipelines for analysis of large-scale screening datasets in collaboration with bioinformaticians is highly desirable.
- Strong analytical, problem-solving, organizational and interpersonal skills.
- Demonstrated self-starting personality, commitment, adaptability, teamwork, and positive attitude.
- Good verbal communication and writing skills in English. Basic knowledge of German language is beneficial.
- Ability to work independently as well as in an international Team.

#### What you can expect from us

Your work directly aims to impact the condition of children and adults with cancer. The projects of the Division of Personalized Tumor Therapy are cutting edge oncology projects in close collaboration with clinical partners. You will gain insights into clinical problems and help to promote the development of diagnostics and therapies for cancer patients.

We offer you an exciting and innovative research and an environment at the interface between precision oncology, drug discovery and lab automation science. You will have the opportunity to work in an infrastructure equipped with state of the art high-throughput screening technologies and to impact the life of the cancer patients by implementing a bed-to-bench-and-back personalized therapy approach.

You will use the Fraunhofer Life Science infrastructure and become part of a dynamic team in an innovative scientific environment (pharmaceutical companies, biotech, diagnostics, clinics, academic partners). You will significantly shape our application-driven technological solutions and further expand the cell-based assay development and HTS capabilities at the Fraunhofer ITEM. Our location at the UNESCO World Heritage Regensburg offers you many leisure time options and an attractive environment.

Salary is paid according to German TVöD (E 13, 100%).

The position is initially limited to 15 months as a maternity leave replacement, however a long-term employment is sought.

The weekly working time is 39 hours.

People with disabilities are given preference if equally qualified.

Please note that the chosen occupational title also includes the third gender. The Fraunhofer Society attaches importance to gender-independent professional equality.

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas.

#### Questions about this position will be answered by:

**Dr. Kamran Honarnejad**

**Phone: +49 941 298480-54**

<http://www.item.fraunhofer.de>

Job Reference: **ITEM-2020-16**

Closing Date: **15.03.2020**

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