The Fraunhofer ISC, Translational Centre for Regenerative Therapies in Würzburg (Germany) offers:

**PhD Position: Robot-based Manufacturing and Analysis of personalized 3D Tissue models**

(Payment corresponding to current regulations on German TV-L scale (50%) for public employees and based on academic knowledge and practical skills.)

The Fraunhofer ISC, Translational Center for Regenerative Therapies (TLC-RT) develops new pre-clinical test systems as well as therapeutic treatments for regenerative medicine based on tissue engineering methods. Using modern robotics technologies we try to automate and standardize the manufacturing and analysis of 3D tissue models and biomaterials:

https://www.bioregio-stern.de/en/projects/aprona

**What we offer:**
- High-quality equipped laboratories
- Regular meetings within the interdisciplinary working group
- Opportunities for further vocational training
- Excellent working atmosphere with cooperative and highly motivated colleagues
- Diversified working environment

**What we expect:**
- Work at the interface of 3D cell biology, automation and robotics: Culture of tumor cell and organoid-based 3D tissue models in a flexible robot platform
- Transfer of manual processes into standardized step protocols used in robotics
- Automated microscopic analysis of histological and immunohistological stainings
- Gene expression analyses
- Independent planning and performance of experiments
- Autonomous and accurate documentation, evaluation and presentation of results
- Preparation and continuous updating of test protocols as well as operating procedures
- Publication of project results within scientific journals and presentation of achievements at international conferences

**Your profile:**
- Successfully completed university study in biomedical or medical engineering or related disciplines
- Interest in interdisciplinary work
- Willingness to improve the scientific and methodical qualifications
- Good language skills in English spoken and in writing, German language skills are of advantage but not necessary
- High level of teamworking, organizational ability, flexibility, personal responsibility and commitment
- Experiences in cell culture and engineering
- Expertises in robotics and automation useful

The position is funded for three year as associated doctoral position within the research consortium “FORTiTher – Tumor diagnostics for individualised Therapies”. A prolongation is possible and intended. Severely disabled applicants are given preferential consideration in the case of equal qualification.

**Interested?**
Please send your full application via Email including all documents to:
PD Dr. Marco Metzger (marco.metzger@isc.fraunhofer.de)

Please note that the position is intended for students from abroad who have never studied or worked in Germany before in order to enable them to do a doctorate in Germany.