

CAN I COMBINE SCIENCE AND BUSINESS IN A SINGLE JOB?

YES.

We'll show you how at Fraunhofer.

COMPUTER SCIENCE IS YOUR TOPIC? FRAUNHOFER MEVIS IN BREMEN IS LOOKING FOR A GRADUATE/POST-DOC AS A

MACHINE LEARNING RESEARCHER IN MEDICAL IMAGE COMPUTING

In this position you will help solving challenging research tasks in the field of medical image computing, specifically the analysis of multi-modal image data and related medical records. You will employ modern machine learning approaches in order to extract relevant information from multi-dimensional image data (such as CT and MR volumes), and in order to correlate the findings with non-image data (such as patient records). Your work will be deeply embedded in medical application contexts, including (but not limited to) different kinds of cancer.

Together, we develop methods and software prototypes for evaluation by clinical partners in real application scenarios, and components for integration in medical products. Additionally, you get the opportunity to publish your research and visit international conferences. Graduates can pursue a PhD at one of our partner universities.

What we expect from you

- practical experience with image processing and analysis, traditional machine learning, or deep learning
- experience in object-orientated software development
- familiarity with self-driven project work and ability to work well in teams
- above-average Master's or higher degree in computer science or another related field
- fluent English and (willingness to learn) German (application in German or English)

In addition, the following traits would be advantageous:

- basic knowledge of medical image computing and visualization
- knowledge of statistical data analysis techniques
- experience with database systems
- experience with DICOM, HL-7 or other standards or clinical IT infrastructure

What you can expect from us

- you will work in an enthusiastic young and interdisciplinary team and create algorithms and software for clinical use
- starting with your technical background, you will discover the field of medical applications
- we offer excellent connections to other Deep Learning experts and groups as well as an up-to-date and professional Deep Learning hardware
- our in-house development environment MeVisLab enables cross-project developments and re-use of thousands of modules written in C++ and Python
- you will get in touch with several excellent university hospitals
- you are free to plan your own time in our trust-based working model
- our involvement in the "Technologiepark" at the University of Bremen allows our employees to benefit from several privileges (e. g. use of the cafeteria hall, university sports programs, language courses)

Remuneration up to TVöD pay grade 13 (dependent on qualifications)

The position is initially limited for 2-3 years.

Appointment, remuneration and social security benefits based on the public-sector collective wage agreement (TVöD). Additionally, Fraunhofer may grant performance-based variable remuneration components.

The Fraunhofer-Gesellschaft places a high value on the equality of men and women in the workplace. Women are underrepresented in this field, so we especially look forward to applications from women. Family and career are balanced through flexible work hours, part-time opportunities, parent-child spaces and emergency childcare. Employment of persons with disabilities is also a high priority for us and a candidate with disabilities who possesses equal qualifications will be given preference.

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.

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

Job Reference: **MEVIS-2017-1**