Magnetic Particle Imaging Specialist (m/f/d)

ID 2022-12970

Overview:

You are eager to actively shape the next level of Magnetic Particle Imaging (MPI) by implementing innovative imaging sequences and reconstruction techniques? Then join the pioneering MPI core-team to provide your expertise in Bruker's stream-lined product lifecycle management process. In your new roll, you will operate as MPI-expert, interacting with the interdisciplinary R&D team, to best realize new imaging sequences, optimized data sampling schemes and ground-breaking reconstruction techniques. With your input, Bruker's new MPI product will bear your handwriting and thus will affect immediately our customer's journey. This is as your crafty software implementations will put our customers into the position to conduct first-in-class research. Together at Bruker, we improve life by inspiring sciences – though you are!

Bruker Corporation's companies belong to the world's leading analytical and measuring instrumentation manufacturers in the sector of life sciences. For the last 60+ years, Bruker has been fulfilling one single purpose: to deliver the best technological solution. Today, more than 7,000 employees worldwide are working on this challenge, in over 90 locations in all continents.

Bruker BioSpin, as part of the Bruker Group, is a high-tech international company and the world-leading manufacturer of comprehensive solutions in Nuclear Magnetic Resonance (NMR), Electron Paramagnetic Resonance (EPR) and Preclinical Magnetic Resonance Imaging (MRI), Computed Tomography (CT), Positron Emission Tomography (PET) as well as Magnetic Particle Imaging (MPI).

We develop high-tech analytical measuring instruments and methods that are used in many fields, from medical technology to materials science and food research.

In addition to being the market leader in most of our product and service groups, we want to make sure that you are doing well to focus on the tasks at hand.

To this end, we offer you:

- A canteen with meal vouchers
- Job bike
- Hybrid working possibilities
- Free employee parking
- Support for your pension scheme
- Capital-forming benefits
- 30 days of vacation
- Modern air-conditioned buildings
- State-of-the-art office space & infrastructure
- Highly satisfied and forward striving teams
- Talented and diverse employees from and all over the world

Finally, of course, the fact that even though we are listed on the stock exchange, we are still safe and sound in the hands of our owner and thus able to weather all storms.

Does this sound great to you?

Responsibilities:

This role comes with a variety of responsibility but also with a lot of freedom in your day-2-day business. Your main responsibility will be to implement not only state-of-the-art and well known MPI trajectories and imaging methods but also to investigate new ways of data processing and reconstruction approaches. You act as the person-to-go receiving answers in the field of MPI image reconstruction and data handling – internally and externally. Together with our customers, you will co-create new software capabilities by implementing and evaluation rapid prototypes. Your evaluations will include simulations and cross-checks with experimental data which you have acquired on our powerful hardware. Furthermore, together with the R&D teams, you will implement and document new features to fulfill our customer's needs.

Next to the product development process work, this role involves possibilities of co-creation in application-oriented research projects, together with our customers and cooperation-partners.

Does this sound interesting to you?

Qualifications:

You are well-equipped with having a deep-rooted & broad-banded technical understanding in the field of physics, mathematics, computer sciences, or equivalent disciplines with at least a degree of Master of Sciences. Paired with enthusiasm in experimental work and profound knowledge in MPI image formation, you best fit our needs to drive the preclinical MPI product developments to the next level. Creativity and a customer centric way of thinking will help you to best serve our development process. Within this process you will have the possibility to constantly grow and develop your own skill sets. With your eagerness seeing your code to optimally impact our customers results, you suit best to the spirit we live at Bruker and indeed within the MPI core-team.

Thus, to get an easy start in this software focused position, you will need the following qualifications:

- C/C++ programming skills (expert)
- MATLAB/PYTHON/JULIA/… programming skills for rapid prototyping (expert)
- Signal and imaging processing (expert)
- MPI physics (advanced)
- Metrology in RF/HF technology (basics)
- MS-Office (expert)
- PLM-PDM-Software Teamcenter (basics)

You are well-equipped and inspired to shape the next level of Magnetic Particle Imaging?

Then get started today – we are keen getting to know you!

Link:

https://englishcareers-bruker.icims.com/jobs/12981/magnetic-particle-imaging-specialist-%28m-f-d%29/job