



The German Cancer Research Center is the largest biomedical research institution in Germany. With more than 3,000 employees, we operate an extensive scientific program in the field of cancer research.

The Division of **Medical Physics in Radiology** is seeking a

Postdoc for Diffusion MRI using a local breast gradient coil

(Ref-No. 2022-0377)

Job description:

At a recently installed 3 Tesla MR scanner of the DKFZ, a local gradient coil with ultra-high amplitude for imaging of the female breast will be set up. Your research work will encompass:

- Controlling the gradient amplifiers
- Integration with the main MRI system to generate diffusion-weighted MR images
- Installation of systems ensuring subject safety (e.g. vibrational measurements), assessment of peripheral nerve stimulation
- Development of a multichannel RF reception coil
- Development of advanced diffusion-weighted MRI sequences and first applications of the coil to volunteers and patients

Requirements:

Successful candidates will become members of a multidisciplinary international team and should:

- hold a PhD degree in physics, engineering, or a related scientific or technical field,
- possess keen interest in scientific research and be able to work independently,
- have good oral and written communication skills in both German (ideal) and English (mandatory),
- have experience in NMR / MRI physics.

Experience in sequence programming (preferred: C/C++, MATLAB / Python, IDEA, ICE) and MRI hardware development (preferred platform: Siemens) would be beneficial but is not a prerequisite.

We offer:

- Interesting, versatile workplace
- International, attractive working environment
- Campus with modern state-of-the-art infrastructure
- Salary according to TV-L including social benefits
- Possibility to work part-time
- Flexible working hours
- Comprehensive further training program
- Access to the DKFZ International Postdoc Program

The position is initially limited to 2 years with the possibility of prolongation. The position can in principle be part-time.

Important notice:

The DKFZ is subject to the regulations of the Infection Protection Act (IfSG). As a consequence, only persons who present proof of immunity against measles as well as against COVID-19 may work at the DKFZ.

For further information please contact
Prof. Dr. Mark Ladd, phone +49 (0)6221/42-2550.

The DKFZ is committed to increase the proportion of women in all areas and positions in which women are underrepresented. Qualified female applicants are therefore particularly encouraged to apply.

Among candidates of equal aptitude and qualifications, a person with disabilities will be given preference.

To apply for a position please use our online application portal (www.dkfz.de).

We ask for your understanding that we cannot return application documents that are sent to us by post (Deutsches Krebsforschungszentrum, Personalabteilung, Im Neuenheimer Feld 280, 69120 Heidelberg) and that we do not accept applications submitted via email. We apologize for any inconvenience this may cause.

