

The Department of Radiology, Medical Physics is inviting applicants to support our activities in the area of Magnetic Resonance Technology. Over the recent years our department has developed a number of novel hardware components for spatial encoding and shimming. The present projects intend to take these developments to a new level by designing and implementing specialized gradient and shim coils of unprecedented strength and precision.

The successful applicant will join a stimulating working environment of over 60 scientists at the MR Physics Group in Freiburg, led by Prof. Maxim Zaitsev. The project will be carried out in tight collaboration with leading industry partners providing access to innovative technological developments for human in vivo imaging.

The following position is available:

PhD student – gradient and shimming hardware

The successful candidate is required to have completed a relevant degree (M. Eng./ M. Sc. or equivalent). Knowledge about magnetics and basic programming skills (Matlab/Python) are required. Experience with advanced manufacturing techniques and 3D printing are helpful. We are seeking a candidate with mechanical skills, willing to spend time in the workshop to implement state-of-the-art hardware. This position allows for the unique combination of theoretical aspects with the focus on patient specific applications.

The working language in our international team is English.

Employment Conditions

Salary and benefits will be in accordance with the regulations for German federal employees (TVL E13, 65%). Duration of the contract is 3 years with the aim of obtaining a PhD in engineering or physics.

Living in Freiburg

Freiburg is located in the south east of Germany, close to the Swiss and French border. At the foot of the Black Forest, the city is ideal for a variety of outdoor activities. Lonely Planet has recently ranked Freiburg 3rd amongst the top 10 in their "Best in Travel City Destinations of the World 2022" listing.

Address your application via e-mail to:

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Visit our web pages

Medical Physics at the University Medical Center Freiburg: <http://www.mr.uniklinik-freiburg.de>
Magnetic Resonance Development and Application Center: <http://www.mrdac.com>

University Medical Center Freiburg is an equal-opportunity employer. Qualified applicants are considered for employment regardless of age, race, colour, religion, sex, national origin, sexual orientation or disability.

