



The **University Hospital of Cologne** is one of Germany's largest academic hospitals providing broad and comprehensive patient-centered healthcare as well as innovative research and high-quality education. With about 1500 beds, the University Hospital of Cologne is delivering care to about 300 000 patients every year, of which 60 000 are inpatients.

The **Institute of Diagnostic and Interventional Radiology** (director prof. dr. David Maintz) is with over 130 employees and about 200.000 radiological exams and interventions one of the largest radiology departments in Germany, offering state-of-the-art clinical practice and infrastructure. With eight clinically and one experimentally used full-body scanner, MRI represents a particular methodological focus of the department in diagnostics as well as image-guided interventions. Other research infrastructure comprises an "*Imaging Informatics Lab*" for the development of new methods in artificial intelligence, as well as the interdisciplinary and multimodal "*Experimental Imaging and image-guided Interventions*" lab (headed by prof. dr. Holger Gröll). Here, new MR-guided treatments using high intensity focused ultrasound (MR-HIFU) are currently investigated for treatment of pancreatic cancer and bone pain.

The Department of Radiology is recruiting a

Postdoc / Research Associate in MR Physics

with an initially fixed-term contract of 3 years regulated by the German law (the so-called WissZeitVG).

We are looking for:

- An MRI expert (PhD) with more than four years of professional experience to expand our current research activities in the field of MRI
- Tasks include:
 - Active support of ongoing research projects such as MR-HIFU
 - Active participation and task coordination in public funded projects (BMBF, EU)
 - Initiation of new research projects in the field of sequence development, data analysis and (pre)clinical studies with focus on fast, motion robust and quantitative MRI
 - Preclinical MRI(-HIFU) research (FELASA certificate needs to be obtained)
 - Acquisition of third-party funds for the own research group

We offer:

- An attractive clinical and scientific environment, with full access to a comprehensive spectrum of state-of-the-art radiological procedures, facilities and research tools
- Connection to the University of Cologne
- Extensive opportunities for academic career development
- Possibility to set up your own research group
- A good working atmosphere in a dynamic and ambitious department
- Interdisciplinary collaboration with other departments and partners
- In-house childcare facility
- Options for deferred compensation and pension scheme

To be successful in this role you will need to have:

- Academic degree in physics or equivalent qualification and PhD with proven academic track record in the field of MRI
- Programming skills with MatLab/Python, C/C++
- Ideally knowledge of programming on Philips systems
- Fluency in English and ideally in German
- Quick comprehension, coordination and organisational skills, ability to work in a team; multicultural social skills

You will be remunerated according to the German collective wage agreement (TV-L). An extension of the employment contract will be assessed proactively according to the legislation in force in Germany (the so-called WissZeitVG law).

The Executive Board of the University Hospital of Cologne is committed to gender diversity. To promote women in that field, priority will be given to women applications provided that the same qualifications, experience and knowledge strictly apply. Applications from disabled persons will also be prioritised along the same conditions.

The position is also suitable for part-time occupation.

For further details, please contact prof. dr. Holger Grüll, under the number: +49 221 478-82035 or per email: holger.gruell@uk-koeln.de (with cc to patrick.voihs@uk-koeln.de)

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