



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** 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. Next to diagnostic imaging, MR-guided interventions using high intensity focused ultrasound (MR-HIFU) are one of the clinical areas of application and research. Clinically, MR-HIFU is used to treat uterine fibroids and bone related metastases with research on new areas of application in pancreatic cancer, sarcomas, facet joint arthritis as well as HIFU induced bioeffects such as histotripsy and immune modulation. In order to strengthen our fundamental and applied research on ultrasound the Department of Radiology is recruiting a

Postdoc / Research Associate in Ultrasound Physics

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

We are looking for:

- A scientist with a PhD in physics, engineering or related fields to expand our current activities in the field of MR-HIFU
- Tasks include:
 - Active support of ongoing research projects on pancreatic cancer, facet joint treatment
 - Transducer development, acoustic characterization, modelling
 - Active participation and task coordination in public funded projects (BMBF, EU)
 - Preclinical MRI(-HIFU) research (FELASA certificate needs to be obtained)
 - Initiation of new research projects in the field of HIFU
 - 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 MR-HIFU equipment, radiological procedures, facilities and research tools
- 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 experimental physics, engineering preferably related to ultrasound
- Programming skills with MatLab/Python, C/C++
- 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. 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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