Although the position will, in large part, be based in Kutaisi, Georgia, the successful applicant will be employed by the Institute of Neuroscience and Medicine – Medical Imaging Physics (INM-4) at Forschungszentrum Jülich as part of the GGSB-PLUS initiative. The GGSB-PLUS was established to facilitate research collaboration and knowledge exchange between scientists and researchers in Germany and Georgia.

Currently, through the GGSB-PLUS, scientists trained in Jülich successfully run three SMART Labs at universities in Georgia for the education and training of students. This model is to be expanded in the form of the SMART|LAB Biomedical Imaging. This lab aims to use machine learning techniques to improve clinical diagnosis and therapy. Specifically, the Lab will address the following topics jointly with Georgia and Germany: (a) quantitative mapping of water content in the brain; (b) tumour diagnostics; (c) early diagnosis using machine learning; (d) development of therapeutic probes for diagnostics and therapy; and (e) training and transfer to the therapy centre.

We are looking to recruit a

**Postdoctoral Researcher - Head of Biomedical Imaging Laboratory (SMART|Lab Biomedical Imaging)**

**Your Job:**
As a Postdoctoral Researcher in MRI / PET / Computer Science you will lead our newly established SMART|Lab Biomedical Imaging in Kutaisi, Georgia. The facility has been developed as part of the German Georgian Science Bridge (GGSB-PLUS), which aims to foster scientific collaboration and exchange between Germany and Georgia, and will be run as a joint collaboration between the Forschungszentrum Jülich (INM-4/IAS-8) and Kutaisi International University. It is anticipated that the Lab will play a pivotal role in advancing the clinical diagnosis and therapy of oncological diseases through the use of machine learning in conjunction with cutting-edge imaging techniques involving MRI and...
PET. You will be responsible for:

- **Lab Leadership**: Lead and manage the day-to-day operations of the Biomedical Imaging Laboratory in Kutaisi, including supervising research staff, students, and collaborating with multidisciplinary teams in Germany and Georgia
- **Research Excellence**: Conduct innovative research in the field of biomedical imaging, with a primary focus on using machine learning techniques to improve clinical diagnosis and therapy
- **Collaboration**: Foster collaborations within the GGSB-PLUS, enhancing bilateral exchange and promoting knowledge transfer
- **Technology Transfer**: Expand the existing platform for technology and knowledge transfer, facilitating the translation of research findings into published research and clinical applications
- **Education**: Mentor students (BSc, MSc and/or PhD) and junior researchers and participate in training and research activities (supervising internships theses, capstone projects, etc.)

**Your Profile:**

- Master and PhD in Biomedical Imaging, Medical Physics, Computer Science, or a related field
- Proven expertise in data-driven computational modelling, MRI, PET
- Strong publication record in peer-reviewed journals
- Experience in leading research projects and teams
- Exceptional organisational and leadership skills
- Excellent communication and interpersonal abilities – including an excellent command of the Georgian and English. Excellent skill of operating in multicultural (Georgian/German) environment
- Competence in the German language would be advantageous
- A commitment to fostering international collaborations and knowledge exchange
- A commitment to stay at KIU campus at least 11 weeks per semester, or 22 weeks per year

**Our Offer:**

We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We support you in your work with:

- A large research campus with green spaces, offering the best possible means for networking with colleagues and pursuing sports alongside work
- A stimulating, collaborative, and international research environment
- Access to cutting-edge imaging equipment and research facilities
- Opportunities for collaboration with leading researchers in the field
- Comprehensive training courses and individual opportunities for personal and professional further development
- Extensive company health management
- Ideal conditions for balancing work and private life, as well as a family-friendly corporate policy
- Exploration and preparation of next career opportunities, supported by our Career Center & Postdoc Office: https://www.fz-juelich.de/en/career-center-postdoc-office
- Targeted services for international employees, e.g. through our International Advisory Service
- Flexible working hours in a part-time position (20-30 hours/week)

We offer you an exciting and varied role in an international and interdisciplinary working environment. Limited until 31.07.2025. Salary and social security benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay
group 13, depending on your current qualifications and the precise nature of the tasks assigned to you.

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: https://go.fzj.de/benefits.

We particularly welcome applications from people from a diverse range of backgrounds (e.g. regardless of age, gender, disabilities, sexual orientation/identity, as well as social, ethnic, and religious background). We strive to offer a diverse and inclusive working environment in which people enjoy equal opportunities and are able to fulfill their potential.