



Postdoctoral Researcher in Applied Analysis and AI in Medical Imaging

The position is funded by a joint German-US collaborative project of Professor Benedikt Wiestler (TUM) and Professor Anke Meyer-Baese (FSU) at the TUM within the research group “AI for Image-Guided Diagnosis and Therapy” of Benedikt Wiestler at the TUM School of Medicine and Health. The project is about developing next-generation DL algorithms using attention mechanisms in combination with generative stochastic modeling and serial conventional MRI (cMRI).

More broadly, research interests in this group include developing generative AI models, reduced-order and attention models, as well as automated assessment of tumor response in neuro-oncology at high throughput using time series of multiparametric physiologic MRI data. The 100% position is initially for 2 years and 3 months, with the possibility of extension.

The ideal candidate will have an excellent PhD in one of these areas or related fields (in applied mathematics, computer science, or a related discipline.) The candidate should have an excellent publication record commensurate with his/her experience. In addition, the successful candidate is highly motivated and has a good ability to work both independently as well as in a team. Her/his activities will include conducting interdisciplinary research with other group members and external collaborators and participating in other activities of the group. Solid English skills, both oral and in writing, are expected. Proficiency in German is not required.

The successful candidate will have the opportunity to work within a vibrant, interdisciplinary and international research environment at TUM, with several groups working in related areas, notably in Physics-Enhanced Machine Learning, Computer Vision & AI, and AI in Health Care and Medicine. The position is a full-time position (100%), initially for 2 years and 3 months, with the possibility of extension. The starting date is flexible, from March 2025 onwards. The position is paid according to the Federal States civil service pay scale up to TV-L13, with the actual salary depending on academic experience, tax classification etc. Travel support for attending conferences, workshops, etc. will be available.

If you have any questions about the position, please contact Anke Meyer-Baese: ameyerbaese@fsu.edu and Benedikt Wiestler: b.wiestler@tum.de

Applications should include:

- a detailed CV with a list of publications and, if applicable, previous teaching experience
- a research statement of about two pages, describing research interests and goals
- names and email addresses of 2-3 academic referees, willing and authorized to send us a recommendation on direct request. Do not send letters of recommendation with your application.

Please send the application as a single PDF document via e-mail to both Benedikt Wiestler (b.wiestler@tum.de) and Anke Meyer-Baese (ameyerbaese@fsu.edu) with “PostDoc AI in Medicine” as the subject line.

Applications will be reviewed starting from February 1, 2025, until the position is filled.

As an equal opportunity and affirmative action employer, TUM explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies.

The position is suitable for disabled persons. Disabled applicants will be given preference in case of generally equivalent suitability, aptitude and professional performance.

Data Protection Information:

When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. With regard to personal information, please take note of the Datenschutzhinweise gemäß Art. 13 Datenschutz-Grundverordnung (DSGVO) zur Erhebung und Verarbeitung von personenbezogenen Daten im Rahmen Ihrer Bewerbung. (data protection information on collecting and processing personal data contained in your application in accordance with Art. 13 of the General Data Protection Regulation (GDPR)). By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.

Kontakt: ameyerbaese@fsu.edu and b.wiestler@tum.de

More Information

<https://www.ias.tum.de/ias/meyer-baese-anke/>

<https://ai-idt.github.io/>