ÖAW - Forschen für die Welt von morgen

As a central non-university institution for science and research, the **Austrian Academy of Sciences - OeAW** has the task of **"promoting science in every respect"**. Founded in 1847 as a learned society, it now has over 760 members and around 1,800 employees dedicated to innovative basic research, interdisciplinary knowledge exchange and the dissemination of new insights. The OeAW initiates and maintains partnerships worldwide and represents Austria in international scientific organizations; it cooperates with numerous institutions in the scientific field in order to actively shape the **research landscape.**

PHD STUDENT POSITION in Mathematical Methods in Medicine and Life Sciences (F/M/X)

Job ID: RICAM048STUD225

The Johann Radon Institute for Computational and Applied Mathematics (RICAM) of the Austrian Academy of Sciences (ÖAW), Austria's leading non-university research and science institution in Applied Mathematics, is offering a

PHD STUDENT POSITION in Mathematical Methods in Medicine and Life Sciences (F/M/X)

(full-time, 30h per week)

Ihr Aufgabenbereich

The position is offered initially for 1 year with the possibility of an extension.

The position is funded by the FFG Bridge project “Advanced Modelling of Pulse Field Ablation to Augment Cardiac Digital Twins for the Treatment of Atrial Fibrillation” led by Dr. Argyrios Petras, in collaboration with the industrial partner NumeriCor GmbH.

The student will join the Mathematical Methods in Medicine and Life Sciences Group at RICAM, located in Linz/Austria, and will work on the development of mathematical models for cardiac pulse field ablation and their validation with tailored experimental data. The successful candidate is expected to perform numerical simulations using the finite element method on geometries reconstructed from medical imaging data, using proprietary software from NumeriCor GmbH.

Ihr Profil

- MSc in Biomedical Engineering, Applied Mathematics, Physics or closely related field
- Experience in mathematical models for medical applications (desirable experience in cardiac electrophysiology models)
- Experience with Python and/or C++ programming languages
- Quick learner of different software tools
- A keen interest in medical applications
- Familiarity or experience with OpenCARP software (desirable)

Unser Angebot

- Excellent opportunities to work in a lively research environment and collaborate with international experts as well as industrial partners in the fields related to the project.
- An annual gross salary of € 39.208,79, according to the collective agreement of the Austrian Academy of Sciences.

We invite you to send your application with a scientific CV, a research statement, and references for possible recommendation letters by clicking on "jetzt bewerben" before April 30th.

JETZT BEWERBEN

Die Österreichische Akademie der Wissenschaften (ÖAW) verfolgt eine diskriminierungsfreie Beschäftigungspolitik und legt Wert auf Chancengleichheit sowie Vielfalt. Insbesondere Personen aus unterrepräsentierten Gruppen werden ausdrücklich ermutigt, sich zu bewerben.

Kontakt

Argyrios Petras | Argyrios.Petras@oeaw.ac.at
RICAM | 4040 Linz, Austria
Österreichische Akademie der Wissenschaften | Austrian Academy of Sciences | https://www.oeaw.ac.at/