PhD Position @ dlaskalab.i-med.ac.at

Multimodal deep learning in cardiovascular medicine



Supervisor:
Prof. Clemens Dlaska, Digital Cardiology Lab, Department of Cardiology; Faculty of AI and Scientific Computing in Medicine (AISCM) – Medical University of Innsbruck

Co-Supervisor:
Assoc. Prof. Agnes Mayr, Department of Radiology – Medical University of Innsbruck

DIGITAL CARDIOLOGY LAB AND PROJECT

The Digital Cardiology Lab (dlaskalab.i-med.ac.at) conducts research on state-of-the-art artificial intelligence (AI) approaches for cardiovascular medicine. As part of the MSCA COFUND doctoral programme IGNIDTE (ignidte.i-med.ac.at), this doctoral project (DC3) will develop multimodal deep-learning methods combining cardiac imaging (e.g., cardiac MRI), electrocardiograms (ECGs) and other clinical data to improve management of acute myocardial infarction (details: ignidte.i-med.ac.at/projects).

YOUR PROFILE

We are looking for someone passionate about research on AI in medicine. Ideally you have:

- a Master's degree in AI, computer science, mathematics, physics or a related field
- a solid foundation in AI methods and their medical applications
- programming skills (e.g., Python, PyTorch)
- experience working with GPU clusters (e.g., SLURM)

Formal eligibility

- Master's (or equivalent) degree by the start of employment; no doctoral degree.
- MSCA mobility rule: max. 12 months living, working or studying in Austria in the 36 months before 10 December 2026.

WHAT WE OFFER

- Full-time doctoral employment contract for 3 years (40 h/week).
- Salary from € 3,776.10 gross/month (B1, Austrian universities' collective agreement) plus allowances.
- Be part of the Faculty of AI and Scientific Computing in Medicine (AISCM) – aiscm.i-med.ac.at
- Two secondments at partner institutions (TU Munich, ETH Zürich).
- A truly interdisciplinary AI and medicine environment – in the middle of the Alps.

HOW TO APPLY

- Apply online: ignidte.i-med.ac.at/apply – deadline **10 December 2026**
- Select **DC3** as your preferred project and include a 2-page research proposal.
- Online interviews with shortlisted candidates: 18–31 January 2027

Questions about the project?

Position-specific inquiries: **Clemens Dlaska – clemens.dlaska@i-med.ac.at**

Programme and application questions: phd-ignidte@i-med.ac.at

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