

#TRANSFORMINGTOMORROW: MAKE A DIFFERENCE WITH US.

IT:U is Austria's first public interdisciplinary university dedicated to digital transformation for the benefit of our society, economy and environment. Join us as a

Postdoctoral Researcher*

and contribute to cutting edge research combining embedded machine learning, signal processing, and smart sensing systems, with applications in autonomous robotics, drones, and space technologies.

Full Time

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KEY RESEARCH TOPICS INCLUDE:

- Embedded ML (Spiking and non-spiking network) with particular emphasis on attention-based models
- Neuromorphic computing and ML deployment on digital and neuromorphic processors
- TinyML and EdgeAI and ultra-low-power inference for resource-constrained systems
- Techniques such as quantization, pruning, knowledge distillation, and novel architectures beyond CNNs
- Real-time embedded signal processing for perception and decision-making

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ADDITIONAL RESPONSIBILITIES

- Support and contribute to teaching activities and student supervision, including PhD students
- Assist in the coordination of lab activities
- Actively participate in the preparation of research proposals and grant applications
- Lead and co-author high-impact publications

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YOUR BACKGROUND:

- PhD in Electrical Engineering, Computer Engineering, or a related field
- Deep expertise in system-level design and the ability to develop functional hardware/software prototypes (PCB design is a plus)
- Strong knowledge of ML algorithms (including spiking networks) and compression techniques for real-time processing on embedded platforms
- Experience in hardware-software co-design for embedded and neuromorphic platforms
- Demonstrated ability to publish in top-tier IEEE journals and conferences (e.g., IEEE IoT Journal, IEEE Sensors Journal, CVPR, ICRA, IROS, NeurIPS, etc.)
- A strong publication track record is essential and should reflect your contributions to the field

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WHAT YOU CAN EXPECT:

- Opportunity to collaborate on cutting edge prototypes and real-world demonstrators
- Strong academic and industrial network across robotics, embedded AI, and sensing technologies
- Unique opportunity to help build a new university
- Interdisciplinary research environment and state of the art infrastructure
- Free parking or Climate Ticket Austria (excellent public transport connection)
- Flexible working hours through a flextime model and the option for home office

Competitive compensation starting from € 4.932,90 monthly gross salary, with the possibility of overpayment based on qualifications and experience.



Your contact person for this position:
Gabriele Költringer, EMBA

We look forward to receiving your online application, including your CV and cover letter.

***come as you are** – we value and promote diversity in our team. Each individual is encouraged to reach their full potential, realize ideas and seize opportunities. Regardless of age, skin color, religion, gender, sexual orientation or origin, we welcome applications from all people equally.