

# SPACE FOR YOUR TALENT.



The world is changing at an ever-faster pace. At the Johannes Kepler University Linz, we work on technologies and the ideas of tomorrow on a daily basis. At the same time, we educate over 23,000 young people to meet the demands of today's job market. In short, we are Upper Austria's largest institution for education and research. Are you interested in being a part of shaping the future at Austria's most attractive campus university? We currently have an immediate job opening for a:

## **Graduate Research Assistant (must hold a Diploma/Master's degree) for a full-time, three-year position in the Visual Data Science Lab at the Institute of Computer Graphics**

A successful applicant for this position will be part of a doctoral training and research network combining the multidisciplinary expertise of 15 research laboratories at renowned EU and UK scientific institutions. This network aims to better understand the complex and multilayered process of tissue regeneration, particularly the regulatory mechanisms of heart, brain, and eye regeneration in the unique and highly tractable zebrafish model system. To this end, the network applies a variety of techniques, from computational and developmental biology, including experimental work, bioinformatics, genomics, and visualization.

Among the proposed contributions of the position at the Visual Data Science Lab to the network are (i) the development of novel, hybrid embedding algorithms to visualize regulatory network data based on a combination of high-dimensional data attributes and topological relationships, and (ii) the development of visual enrichment techniques and interactions designed to help users interpret these low-dimensional representations.

### **Job Duties:**

- Conduct original scientific research in the field of visual data science (visualization, visual analytics, explainable AI)
- Collaborate with scientists and students working in other fields covered by the research network
- Work towards obtaining a PhD in computer science or artificial intelligence
- Publish scientific findings in renowned international journals and at conferences
- Complete trainings, short-term research stays, and/or secondments at international collaboration partners
- Provide support to manage the project and the institute's general administration activities

### **Your Qualifications:**

- The successful candidate must hold a Diploma/Master's degree in a relevant discipline (computer science, artificial intelligence, mathematics, bioinformatics, statistics, or similar) or have equivalent qualifications
- Expertise in one or more of the following fields: data visualization, visual analytics, explainable AI, data mining, statistics, machine learning, bioinformatics, and genomics.
- Strong programming skills in web technologies (e.g., HTML5, D3.js, Java Script) and scripting languages (Python and R) are of advantage
- Strong motivation and commitment to research
- Willingness and ability to work in a team
- Strong command of English (level C1), German skills are a plus
- Mobility requirement: Applicants must not have resided or carried out their main activity (e.g. work, studies) in Austria for more than 12 months in the 3 years immediately before the recruitment date

**What We Offer:**

- On the basis of full-time employment (40 hours/week), the minimum salary in accordance with the collective agreement is € 3,578.80 gross per month (14 x per year, CA Job Grade: B1)
- Stable employer
- Attractive campus environment with good public transportation connections
- Attractive continual educational opportunities
- State-of-the-art research infrastructure
- Dynamic research environment
- Broad range of on-campus dining services/healthy meals (organic food at the cafeteria)
- Exercise and sports classes (USI)
- ... and much more

**Application Deadline:** September 4, 2024.

The Johannes Kepler University wishes to increase the proportion of academic female faculty and, for this reason, especially welcomes applications by qualified women. If applicants are equally qualified, a woman will be given preference for this position. The university welcomes applications from qualified applicants with physical disabilities. These applications will be given special consideration.

**How to Apply:**

Prospective applicants interested in the multifaceted position are requested to electronically send an application in adherence to the stated criteria together with the requested documentation via mail to [marc.streit@jku.at](mailto:marc.streit@jku.at).

**Contact:**

If you have questions, please contact Dr. Andreas Hinterreiter, P +43 732 2468 6638, E-mail: [andreas.hinterreiter@jku.at](mailto:andreas.hinterreiter@jku.at) or Univ.-Prof. Dr. Marc Streit, P +43 732 2468 6635, E-mail: [marc.streit@jku.at](mailto:marc.streit@jku.at).