

Stellenausschreibungen

An der Fakultät für Informatik der Technischen Universität Wien gelangen **nachstehende Stellen** zur Besetzung:

Die TU Wien strebt eine Erhöhung des Frauenanteils insbesondere in Leitungsfunktionen und beim wissenschaftlichen bzw. künstlerischen Personal an und fordert deshalb qualifizierte Frauen ausdrücklich zur Bewerbung auf. Bewerberinnen, die gleich geeignet sind wie der bestgeeignete Mitbewerber, werden vorrangig aufgenommen, sofern nicht in der Person eines Mitbewerbers liegende Gründe überwiegen. Wir sind bemüht, behinderte Menschen mit entsprechender Qualifikation einzustellen und fordern daher ausdrücklich zur Bewerbung auf. Bei Rückfragen wenden Sie sich bitte an die Behindertenvertrauensperson der TU Wien, Herrn Gerhard Neustätter, gerhard.neustaetter@tuwien.ac.at.

At the **Institute of Logic and Computation, in the Research Unit of Artificial Intelligence Techniques**, TU Wien is offering a position as university assistant (post-doc) for 6 years for 40 hours/week. Expected start: July 2023.

You will work on neuroscience-inspired artificial intelligence (AI) towards the development of novel AI systems by using insights from cognitive neuroscience. This research aims to overcome limitations in current AI approaches in order to improve the application of AI and machine learning systems to real-world problems where AI has not reached human-level interpretability and accuracy such as in healthcare. You will develop next-generation AI models based on theories of message passing in the brain, such as (but not limited to) predictive coding, dopamine-inspired learning rules, equilibrium propagation, and target propagation. You will develop novel AI algorithms and systems inspired by and using insights from neuroscience for a variety of application domains and problems in machine learning, such as computer vision, natural language processing, and natural language explanations.

You will hold a doctorate (or be close to completion) in computer science or related discipline, together with relevant experience, and possess good (theoretical and programming) background in machine learning, computational biology, and computational neuroscience (desirably in deep learning and neural networks, deep-learning-based representations, predictive coding, and target propagation), as well as good software engineering skills (especially in system implementations and experimental evaluations). Experience in applying machine learning models in the healthcare domain would also be strongly appreciated.

Tasks:

- Deep interest in scientific problems and the motivation for independent and goal-oriented research.
- Independent teaching or participation in teaching and supervision of students (in German and English).
- The ability to develop methods, concepts, as well as their realization and evaluation and the willingness to contribute in interdisciplinary scientific projects.
- Participation in organizational and administrative tasks of the research division and the faculty.

Your profile:

- Completion of an appropriate doctorate and in-depth knowledge of the subject area.
- Experience in brain modelling would be strongly valued.
- Experience in national and international research cooperation as well as in project management and presentations.
- Interdisciplinary work.
- Experience in teaching and publication activities as well as interest and pleasure in research and work/support with students.
- Organizational and analytical skills as well as a structured way of working.
- Very good communicative skills and team competences.
- Very good skills in English communication and writing.
- Knowledge of German (level B2) or willingness to learn it in the first year.

**We offer:**

- A wide variety and exciting range of tasks in a collegial team.
- Hybrid working style with up to 60% home office option.
- A range of attractive social benefits (see [Fringe-Benefit Catalogue of TU Wien](#)).
- Wide range of internal and external training opportunities, various career options.
- Central location of workplace as well as good accessibility (U1/U4 Karlsplatz).

Entry level salary is determined by the pay grade B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 4,351.90/month gross, 14 times/year for 40 hours/week. Relevant working experiences may increase the monthly income.

We look forward to receiving your application until July 27, 2023 on our job platform: <https://jobs.tuwien.ac.at/Job/213527>

The [Machine Learning Research Unit](#) investigates fundamental machine learning questions and demonstrates the applicability of novel algorithms in real-world applications, often together with colleagues and collaborators from other disciplines. Challenges that we investigate often involve structured data such as graphs, iterative learning processes such as online/active learning, approximation/convergence guarantees, and computational questions such as the efficiency and parallelisation of machine learning algorithms. **There is now an opportunity for you to join our research unit as a university assistant** (prae-doc: 30 hours/week for four years).

Tasks:

- Research in machine learning, publication of results in top scientific venues
- Completion of a dissertation
- Presentation of research results and participation in scientific meetings
- Support of teaching activities: preparation of teaching materials, (co-)supervision of exercises, seminars, internships, bachelor's and master's theses
- Participation in research projects and assistance with administrative tasks

Your profile:

- Very good master's level degree or expectation to obtain one within a few months
- Thorough knowledge of machine learning and/or related areas
- Good programming experience and a strong background in mathematics
- Strong interest in machine learning theory and algorithms with a willingness to apply the algorithms to real data
- Initial experience with research projects (e.g., thesis, internships, publications)
- Curious and highly motivated for scientific research
- Ability to work independently as well as in a team
- Very good spoken and written English. Knowledge of German (language level B2) or willingness to learn it in the first year

We offer:

- Opportunity to develop your own research ideas
- Dynamic and constantly evolving work environment
- Wide range of continuing education and flexible working hours
- Possibility to participate in structured doctoral programmes
- Central location of workplace with very good accessibility (U1/U2/U4 Karlsplatz)
- A creative environment in one of the most liveable cities in the world
- Additional benefits for employees (see [Fringe-Benefit Catalogue of TU Wien](#))

Entry level salary is determined by the pay grade B1 of the Austrian collective agreement for university staff. This is a minimum of currently EUR 2,458.00/month gross, 14 times/year for 30 hours/week. Relevant working experiences may increase the monthly income.

We look forward to receiving your application until August 3, 2023 on our job platform: <https://jobs.tuwien.ac.at/Job/213528>

NOTE: In your **motivation letter**, please clearly motivate your research interests and **how they align with our research interests**. For each of your concluded or ongoing academic degrees, please include a transcript of marks.

Am **Institut für Logic and Computation, im Forschungsbereich Theory and Logic** sind zwei Stellen als Studentische_r Mitarbeiter_in in Forschung und Verwaltung, voraussichtlich ab September 2023 (jeweils 15 Wochenstunden) mit folgendem Aufgabengebiet zu besetzen. Diese Stelle ist bis Ende August 2024 befristet, längstens jedoch bis zum Abschluss des Master- oder Diplomstudiums.

Es handelt sich um eine Ausschreibung im Rahmen des vom BMBWF finanzierten Calls „Digitale und soziale Transformation in der Hochschulbildung“ für das geförderte Projekt „CodeAbility Austria“, welches innerhalb des Clusters „Informatik und digitale Kompetenzen“ durchgeführt wird.

Ihre Aufgaben:

- Engagierte Mitarbeit im Projekt CodeAbility Austria
- Unterstützung bei der Umsetzung einer Austauschplattform für Lehr- und Lernmaterialien im Bereich Programmieren
- Erstellen und Peer Review von Lehr- und Lernmaterialien im Bereich Programmieren

Ihr Profil:

- Inskription eines facheinschlägigen Studiums der Fachrichtung Informatik; kein abgeschlossenes Master- oder Diplomstudium der Fachrichtung
- Fachspezifische Kenntnisse
- Praktische Kenntnisse in den folgenden Bereichen: Auszeichnungssprachen (z.B. Markdown, YAML, LaTeX), Versionsverwaltungssysteme (z.B. git), Python, Java
- Erfahrung als Tutor_in von Vorteil
- Team- und Kommunikationsfähigkeit

Wir bieten:

- Vielfältiges und spannendes Aufgabengebiet in einem kollegialen Team
- Hybride Arbeitsweise mit bis zu 60% Home-Office Möglichkeit
- Eine Reihe attraktiver Sozialleistungen (siehe [Fringe-Benefit Katalog der TU Wien](#))
- Breites internes und externes Weiterbildungsangebot, verschiedene Karriereoptionen
- Zentrale Lage sowie gute Erreichbarkeit (U1/U4 Karlsplatz)

Die Entlohnung erfolgt nach dem Mindestentgelt der Gehaltsgruppe C gemäß dem Kollektivvertrag für Arbeitnehmer_innen der Universitäten und beträgt bei einem wöchentlichen Beschäftigungsausmaß von 15 Stunden derzeit EUR 892,60 brutto/Monat (14x jährlich).

Wir freuen uns auf Ihre Bewerbung bis 27.7.2023 auf unserer Job-Plattform: <https://jobs.tuwien.ac.at/Job/213570>