

The University of Vienna (20 faculties and centres, 184 fields of study, approx. 10.400 members of staff, about 90.000 students) seeks to fill the position as soon as possible of a

## **University Assistant (prae doc) at the Research Group Theory and Application of Algorithms (TAA) at the Faculty of Computer Science, University of Vienna under the supervision of Prof. Kathrin Hanauer**

**Reference number:** "#09 PC4-23: TAA Prof. Hanauer"

The Faculty of Computer Science of the University of Vienna has world-leading researchers in Computer Science who pursue basic as well as applied research. The [UniVie Doctoral School Computer Science \(DoCS\)](#) builds an essential framework to foster excellence in research and teaching. Its main focus is on young prospective researchers eager to make an impact on both basic research as well as applied problems with collaborations across the University and beyond. The DoCS aims to provide these young researchers with the broad knowledge and expertise needed to perform Computer Science research at the highest achievable quality. The Doctoral School trains doctoral candidates in solving basic as well as applied research questions of high relevance.

Are you passionate about algorithms, love to analyze them, translate them into efficient source code, and experiment with them? Then this position may be for you!

The position is within the research group Theory and Applications of Algorithms (TAA) under the supervision of Prof. Kathrin Hanauer. The successful candidate will pursue research in the area of algorithm engineering and efficient algorithms in the context of AI.

At TAA, we offer a friendly and inspiring working atmosphere in a young, dynamic, and diverse team and excellent opportunities to grow both professionally and personally. For more information about us see also our website <https://taa.cs.univie.ac.at>.

To receive full consideration, applications must include all documents listed below.

**Duration of employment:** 3 years (The announcement is made for 3 years, whereby the employment relationship is initially limited to 1.5 years and is automatically extended to a total of 3 years, unless the employer submits a declaration of non-renewal after a maximum of 12 months. In case of probation and appropriate work progress an extension to 4 years is possible.)

**Extent of employment:** 30.0 hours/week

**Job grading in accordance with collective bargaining agreement:** §48 VwGr. B1 Grundstufe (praedoc) with relevant work experience determining the assignment to a particular salary grade.

### **Job description**

Participation in research, teaching and administration:

- Participation in research projects/research studies
- Participation in publications/academic articles/presentations
- We expect the successful candidate to sign a doctoral thesis agreement within 12-18 months.
- Participation in teaching and independent teaching of courses as defined by the collective agreement
- Supervision of students
- Involvement in the organisation of meetings, conferences, symposiums

- Project applications and (external) fund raising
- Examination activities
- Involvement in evaluation activities and in quality assurance
- Involvement in the department administration as well as in teaching and research administration

The research should focus on combinatorial algorithms in practice, specifically algorithm engineering and efficient algorithms in the context of AI.

### Profile

- MSc or equivalent in computer science or mathematics
- Very good knowledge of combinatorial algorithms and their analysis
- Solid skills in software development
- Very good programming skills
- High ability to express yourself both orally and in writing
- Excellent command of written and spoken English
- Self-motivation
- Willingness to work in interdisciplinary projects
- Ability to work in a team

Desirable qualifications are

- Basic experience in research methods and academic writing
- Experience in C/C++ programming
- Background in algorithm engineering
- Teaching experience / experience of working with e-learning
- Knowledge of university processes and structures
- Experience abroad

### Application documents

- Curriculum vitae
- Letter of Motivation including ideas for a prospective doctoral project proposal
- Abstract of master thesis
- Degree certificates (bachelor and master)
- Names of at least 2 references
- Evidence of programming skills (e.g. Github/Gitlab repository, if available)
- List of publications, evidence of teaching experience (if available)

For further information please contact Kathrin Hanauer ([kathrin.hanauer@univie.ac.at](mailto:kathrin.hanauer@univie.ac.at); +43 (0)1 4277 78350).

Applications should be submitted via the recruiting tool [Apply@DoCS | Servicedesk Universität Wien \(univie.ac.at\)](#), mentioning reference number “#09 PC4-23: TAA Prof. Hanauer”. Further details are available here (also how you set up an u:account): <https://docs.univie.ac.at/apply>.

The University pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity (<http://diversity.univie.ac.at/>). The University lays special emphasis on increasing the number of women in senior and academic positions. Given equal qualifications, preference will be given to female applicants.

The candidate who is selected for this position joins the DoCS as a doctoral student member.