

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 from 01.06.2023 (tentatively) of a

University Assistant (prae doc) at the Research Group Theory and Applications of Algorithms at the Faculty of Computer Science, University of Vienna under the supervision of Prof. Gramoz Goranci

Reference number: "#08 PC4-23: TAA Prof. Goranci"

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.

This position is in the team of Prof. Gramoz Goranci within the research group Theory and Applications of Algorithms (TAA) of the Faculty of Computer Science. The successful candidate will pursue research on design and analysis of algorithms with a particular focus on graph algorithms, dynamic graph algorithms and algorithms based on (numerical) linear algebra. Other topics in algorithm design or theoretical computer science are possible depending on the candidate's background.

We offer a pleasant working environment in a dynamic, young, and international team with excellent opportunities to grow both professionally and personally. More information about us can be found at <https://taa.cs.univie.ac.at/>. To receive full considerations, applications must include all the 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
- Involvement in the department administration as well as in teaching and research administration

The research should focus on the design and analysis of fast algorithms for fundamental optimization problems including graph algorithms, dynamic graph algorithms and algorithms based on (numerical) linear algebra. Depending on the background and interest of the candidate, it is also possible to work on proving complexity theory hardness results, other computational models including distributed/parallel algorithms, as well as algorithm engineering.

Profile

- Completed master's degree in Computer Science, Informatics or Mathematics
- Excellent prior knowledge in analysis of algorithms (can be documented through coursework)
- High ability to express yourself both orally and in writing
- Excellent command of written and spoken English
- Ability to work in a team

Desirable qualifications are

- Teaching experience / experience of working with e-learning
- Documented research experience in algorithm design or theoretical computer science
- Basic experience in research methods and academic writing
- Knowledge of university processes and structures

Application documents

- Curriculum vitae
- Letter of Motivation including ideas for a prospective doctoral project proposal
- Abstract of master thesis
- Degree certificates
- List of publications, evidence of teaching experience (if available)

For further information please contact Prof. Gramoz Goranci, +43 1 4277 78312.

Applications should be submitted via the recruiting tool [Apply@DoCS | Servicedesk Universität Wien \(univie.ac.at\)](#), mentioning reference number "#08 PC4-23: TAA Prof. Goranci". 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.