

Am Institut für Informationssysteme, Arbeitsbereich Parallel Computing, der Technischen Universität Wien ist eine Stelle für eine/n vollbeschäftigte/n Assistenten/in (40 Wochenstunden) ehestmöglich für die Dauer von 2 Jahren zu besetzen.

Aufnahmebedingungen: einschlägiges abgeschlossenes Doktoratsstudium der Fachrichtung computer science, electrical engineering, mathematics or other related area

Additional Information and requirements:

The research group for Parallel Computing at the Institute of Information Systems, Faculty of Informatics of the Vienna University of Technology (TU Wien) is offering a fully funded 2 year postdoc position (with various possibilities for extension beyond the 2 years) for practical and theoretical research in a theme aligned with the focus of the group, see [www.par.tuwien.ac.at](http://www.par.tuwien.ac.at).

The research group for parallel computing is a new group at the Vienna University of Technology. Its focus is on means and methods for efficiently utilizing different, real (e.g., clusters and shared memory systems with accelerators and other HW support, GPUs) as well as idealized, (e.g., fully connected communication networks, PRAM) parallel architectures for the solution of given computational problems. This includes the design, development and implementation of parallel algorithms and data structures for fundamental, basic problems (e.g., communication, reduction) and problems incurred by applications, of parallel programming models, interfaces, languages and libraries and their algorithmic support, and the study of parallel architectures.

Some specific, possible themes are algorithms for collective communication on multi-core based parallel architectures, robust collective communication algorithms, language paradigms for hybrid and heterogeneous HPC, performance portability for high-performance interfaces and heterogeneous multi-core systems and lock-free algorithms and data structures, to name a few. Contribution to other activities of the group (research projects including aquisition of new projects), including teaching is expected as part of the position.

The postdoc position is initially offered for 2 years. By good mutual understanding and productive collaboration there are various possibilities for extension beyond the two years.

Salary will be for a full-time 40 hour a week position in accordance with the Austrian standard rate for University employment and according to prior qualifications.

Qualifications:

- A good PhD in computer science, electrical engineering, mathematics, or other related area
  - A qualitatively strong publication record in one or more parallel computing themes, practically or theoretically oriented
  - Good theoretical grounding in computer science (algorithms and data structures, complexity, computability, ...)
  - Good programming skills in C/C++, Fortran, or Java; knowledge of other paradigms (functional, logic, data flow) a plus
  - Research capability, interest and enthusiasm, demonstrated both independently and with collaborators
  - Some teaching experience and a positive interest in the teaching aspect
- Speaking German is not required, but fluency in English (written and spoken) is a

must. Willingness to learn German for foreign applicants is a plus. The application should include a short statement of interests, a suggested research outline (that will be subject to discussion), CV, copy of doctoral and diploma theses, and the name of two references that can be contacted for supporting information.  
For further questions please contact Prof. Dr. Jesper Larsson Träff.

Deadline for application is Monday, January 30, 2012.

Please direct your application to [monika.schitter@tuwien.ac.at](mailto:monika.schitter@tuwien.ac.at) , including a short outline of research interests and possible direction, CV, PhD and MSc certificates, and list of publications with 1-3 highlighted main results.

Bewerbungsfrist: bis 30. Jänner 2012

Bewerbungen schriftlich an die Personalabteilung für wissenschaftliches Personal der Technischen Universität Wien, Karlsplatz 13, 1040 Wien, Onlinebewerbungen an [monika.schitter@tuwien.ac.at](mailto:monika.schitter@tuwien.ac.at)

Die Bewerber und Bewerberinnen haben keinen Anspruch auf Abgeltung angefallener Reise- und Aufenthaltskosten, die aus Anlass des Aufnahmeverfahrens entstanden sind.

Die Universität 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.

Behinderte Menschen mit entsprechender Qualifikation werden ausdrücklich zur Bewerbung aufgefordert.

Diese Stelle wurde im Mitteilungsblatt der Technischen Universität Wien vom 21. Dezember 2011 veröffentlicht:

Die Ausgabe des Mitteilungsblattes der Technischen Universität Wien ist unter

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