UNIVERSITY OF COLOGNE

Research fellow in HPC security (f/m/x)

Regional Computing Centre (RRZK/ITCC)

We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The Regional Computing Centre (RRZK/ITCC) is a central facility of the University of Cologne. Its department "High-Performance Computing and Visualization" (HPC/VIS) operates the new high-performance cluster RAMSES, a state-of-the-art combination of high-performance computing and IT security. RAMSES is available to researchers from North Rhine-Westphalia (NRW) for scientific computing in a highly secure environment.

YOUR TASKS

As part of the HPC/VIS department, you will be responsible for the implementation, further development and optimization of our HPC security architecture. Your tasks will include:

» Research and systematic evaluation of the applicability and transferability of security concepts and security techniques from other IT sectors to the HPC context
» Research into mechanisms for the systematic detection and elimination of security risks and vulnerabilities
» Continuous improvement of security through analysis and further development of safety precautions
» Work on current scientific issues and topics in the field of HPC security
» Publication of results at scientific conferences and in specialist media
» Teaching in the scope of 4 semester hours
» Collaboration in regional and national projects (such as HPC.NRW) on the topic of IT security
» Support and advice for users on security issues and the processing of sensitive data
» Arrangement, planning and implementation of hardware and software installations
» Participation in academic self-administration

YOUR PROFILE

» University degree in computer science or a related field
» Doctorate desirable
» Several years of professional experience in the HPC environment and/or in IT project management
» Professional experience in IT security is desirable
» Very good Linux and shell knowledge
» Team-oriented personality and experience in consulting situations

» Conceptual strength as well as careful and responsible working style
» Very good communication skills in German and English

WE OFFER

» Varied and exciting work at the interface between HPC and security on a cutting-edge high-performance computer
» A diverse working environment with equal opportunities
» Support in balancing work and family life
» Extensive advanced training opportunities
» Occupational health management offers
» Flexible working time models
» Opportunity to work remotely

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

The position is available immediately on a full-time basis (39,83 hours per week). The position is permanent. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.
You can find more information in the Strategic Guidelines for Career Paths in the Post-Doc Stage and in the Guidelines on Permanent Employment Opportunities for Academic and Artistic Staff at the UoC.

Please apply online with proof of the required qualifications without a photo under: https://jobportal.uni-koeln.de. The reference number is Wiss2402-12. The application deadline is 28.04.2024. For further inquiries, please contact Peter Heger (heger@uni-koeln.de) or Viktor Achter (vachter@uni-koeln.de).