

PhD Position for Computational Scientist (f/m/d) in Climate-Adapted Planning

VRVis, Austria's largest research institute for Visual Computing is looking for a skilled and creative mind!

We offer an open-ended position for a computational scientist (f/m/d) developing and integrating highly performant microclimate simulations in the context of [practical climate-sensitive planning](#). The results will be integrated into the software [scenarify](#), VRVis' simulation software solution for decision support in climate change adaptation and disaster management.

You will join our [Integrated Simulations](#) R&D team of highly motivated researchers and software engineers who enjoy finding innovative solutions in a constructive and friendly atmosphere.



Your job

- Research fast numerical methods for microclimate simulation (heat, wind) for real-world use cases
- Further develop and accelerate a state-of-the-art microclimate model
- Research new parallelization strategies for single- and multi-GPU architectures
- Publish your research results at renowned scientific venues

Your background

- A master's degree in computational science, computer science, mathematics, physics, or a related field with a focus on parallel programming for GPU architectures
- Practical experience with parallelization strategies for high-performance algorithms
- Strong skills and practical experience in C++ programming and GPU programming with CUDA or OpenCL
- Good knowledge of spoken and written English; German is appreciated, but not required

Nice to have:

- Practical knowledge of numerical schemes to solve partial differential equations

Our offer

- Open-ended contract, 40 hours per week, negotiable
- Flexible working hours, home office option, well-equipped workplace
- Opportunity to pursue your PhD with scientific supervision by [Prof. Michael Wimmer at TU Wien](#)
- Working on one of the most pressing challenges of our time, contributing to climate change adaptation, e.g. by improving heavy rain and flood hazard maps in collaboration with domain experts and end users
- Location: Vienna / Austria, office easily accessible by means of public transport (U1 subway stop VIC)
- Salary according to collective labor agreement (IT-Kollektivvertrag) including bonus for 13th and 14th month (monthly min. FT 3.077, - EUR) with overpay depending on qualification, previous professional experience
- Supportive atmosphere in an inclusive team

Applications are welcome!

Please forward your application documents to Franziska Steyer-Beerman (HR) via e-mail to:

franziska@vrvis.at

VRVis being an equal opportunity employer would like to counter the lack of female researchers in the visual computing field. Therefore, we highly encourage female candidates to apply.