

PhD Position for Microclimate Simulations 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 fast microclimate simulations in the context of [practical climate-sensitive planning](#). The results will be integrated into the software [Visdom](#), 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 for fast numerical methods for microclimate simulation (heat, wind, water) for real-world use cases
- Couple solutions with our existing water simulation in a decision support system
- Willingness to pursue your PhD
- Publish your research results at renowned scientific venues

Your background

- A master's degree in computational science, mathematics, physics, environmental engineering, or a related field with a focus on numerical problem solving, modelling, and simulation
- Good understanding of the mathematical theory behind fluid dynamics
- Practical knowledge of numerical schemes to solve partial differential equations
- Good skills and practical experience with programming in C++
- Good knowledge of English in speaking and writing; German is appreciated, but not required

Nice to have

- Experience with programming high-performance algorithms on parallel architectures

Our offer

- Open-ended contract, 40 hours per week, negotiable
- Flexible working hours, home office option, well-equipped workplace
- 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 full-time min. 2.854 EUR) **with overpay** depending on qual. and previous professional experience
- Supportive atmosphere in an inclusive team

Application

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

We are looking forward to receiving your application 😊

