

# Research Engineer (f/m/d) for Microclimate Simulations in Climate-Adapted Planning

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[VRVis](#), Austria's largest research institute for Visual Computing is looking for a skilled and creative mind!

We offer open-ended positions for research engineers/ computational scientists/ PhD candidates and PostDocs who would be interested in joining our research and development efforts 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.

## Several job opportunities, e.g.

- 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
- Accelerate simulations with data-driven and physics driven AI in the microclimate and water domain
- Channel the AI competence in the research group
- Develop solutions to derive parameters from images and sensor data (photos, satellite imagery)
- Publish and/or present your research results at renowned scientific venues

## Your background

- An advanced degree in computational science, mathematics, physics, environmental engineering, or a related field with a focus on numerical problem solving, modelling, and simulation or a focus on AI methods
- Practical knowledge of numerical schemes to solve partial differential equations and/or experience in applying AI techniques to solve complex real-world problems
- Good programming skills, esp. in C++
- Good spoken and written English (German is appreciated, but not required)

## Nice to have

- Experience with programming high-performance algorithms on parallel architectures
- Understanding of computational fluid dynamics or microclimate modelling

## 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 13<sup>th</sup> and 14<sup>th</sup> month (monthly min. FT 3.455, - EUR) **with overpay** depending on qualification and previous professional experience
- Supportive atmosphere in an inclusive team
- Opportunity to pursue your PhD in cooperation with one of our scientific partners

## Applications are welcome!

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

e-mail to [fsb@vrvis.at](mailto: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.

