

# PhD position in Environmental Simulation for climate-adapted planning

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

We offer a position for a PhD-student (f/m/d) who will support our research and development in the field of environmental simulation. The results will be integrated into the VRVis' Software [Visdom](#) which is a proven solution for decision support in climate change adaptation and disaster management. More information about us and [Visdom](#) on our website [www.vrvis.at](http://www.vrvis.at).



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 simulation methods on a microclimate scale (water, heat, wind)
- First year: Modelling of blue-green climate adaptation measures and adding a water quality simulation component to our 2D shallow water solver

## Your background

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

## Nice to have

- Experience in applying AI-techniques
- Experience with GPU programming (CUDA)
- Experience in microclimate modelling

## Our offer

- 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 and disaster management, by providing society with simulation tools for a better understanding of future scenarios and the impact of decisions to be made
- Option of conference travel to present your work
- 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 2635, - EUR) with overpay depending on qualification and previous professional experience
- Supportive atmosphere in an inclusive team
- Option to start your PhD at our [scientific partner TU Wien](#) if you should not yet participate in a PhD program

## Application

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.

Your application should include:

- Curriculum Vitae
- Publication list, including talks, master thesis, projects that are available online, etc.
- Code samples of your previous work

Application deadline is September 30, 2022. Late applications will be considered until the position is filled.

We are looking forward to your application 😊

## Contact

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