Interreg Co-funded by the European Union
Alpine Space
MARGIN

Lehrstuhl für Hydrogeologie
TUM School of Engineering and Design
Technische Universität München

MARGIN PROJECT · INTERREG ALPINE SPACE · EU CO-FUNDED

Student Assistant (HiWi): Gamebook Web Developer

20 h/week · flexible schedule · 6–12 months

About the project

The MARGIN project (Interreg Alpine Space, EU co-funded) is developing a Toolbox for Groundwater Sustainability Management at city level. The toolbox includes guidelines, a catalogue of adaptation strategies, best practice examples and a gamebook — the interactive web component that brings everything together for city administrators, planners and water authorities across Alpine cities.

As our student developer, you will build the gamebook web application: the interactive and educational core of the toolbox.

Your tasks

- Develop the gamebook as a web application — from first prototypes to a tool used in practice
- Implement fixed technical, scientific and governance content: guidelines, case studies (Munich, Vienna, Linz, Ljubljana) and best practice examples
- Build interactive modules: governance diagram builder, data catalogue explorer, stakeholder mapping
- Work in close coordination with the content team (researchers providing ideas, cases and structure) and the project team across multiple Alpine cities

Technical skills

Skill	Level
JavaScript / React / Python	Required
HTML / CSS	Required
Databases (Supabase, Firebase or similar)	Required
Interactive UI / animations	Required
REST API basics	Required
SVG / data visualization	Required
AI-assisted development (Claude Code, Copilot,	Expected

Cursor)	
Enthusiasm to learn and use AI website-building tools	Expected

Your profile

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- Currently enrolled in a Bachelor's or Master's program, preferably in software engineering or computer science — however, we are also open to candidates from other fields who can demonstrate the required skills.
- You can translate research content into clear, interactive interfaces
- You work iteratively — content and structure will evolve during the project
- You communicate well with both technical and non-technical team members
- You are proactive and able to work independently
- You are fluent in English (working language of the project)
- Interest in sustainability, urban planning or climate topics is a plus

What we offer

- A paid HiWi position: 20 h/week, flexible schedule, for 6–12 months
- A real tool, used and deployed in an EU-funded project
- Collaboration with an international research team across Alpine cities
- A strong portfolio piece to show future employers

How to apply

Please send your application, including your CV and a short letter of motivation, preferably as a single PDF file, to cristina.astudillo@tum.de by 30 September.

We look forward to hearing from you!