



We are Austria's largest research and technology organisation and an international player in applied research for innovative infrastructure solutions. This makes us a powerful development partner for industry and a top employer in the scientific community. Our **Center for Mobility Systems** in Vienna invites applications for a:

Master Thesis "Spatiotemporal Hotspot Analysis for Movement Data"

IMAGINE

- Data describing the movement of people, vehicles, animals, or other objects combine both spatial and temporal characteristics.
- As part of this master thesis, you will deal intensively with the topic of detecting spatiotemporal hotspots in movement data.

ENGAGE

- You will learn to conduct literature research on statistical spatiotemporal hotspot analysis.
- You will review existing implementations of spatiotemporal hotspot analysis and assess the gap that needs to be bridged to apply spatiotemporal hotspot analysis to movement data.
- You will support our researcher team in implementing a spatiotemporal hotspot analysis for floating car data using open source libraries.

ACHIEVE

- Your results will be integrated into our team's movement data analysis toolbox.
- You will gain experience in spatiotemporal statistical analysis.
- You will have the opportunity to publish in a professional journal and/or present at a conference.

Your qualifications as an **Ingenious Partner***:

- Ongoing master's studies in the field of transportation research, data science, statistics or similar
- Experience performing data analysis using Python
- Very good command of German or English (spoken and written)

What to expect:

EUR 779,- gross per month for 20 hours/week based on the collective agreement. There will be additional company benefits. You will be part of our international Young AIT network. As a research institution, we are familiar with the supervision and execution of master theses and we are looking forward to supporting you accordingly

At AIT, the promotion of women is important to us - that's why we are especially looking forward to applications from female students!

TOMORROW TODAY – WITH YOU?

Please submit your application documents including CV, motivational letter and certificates via <https://jobs.ait.ac.at/Job/129128>

For further information please contact:

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