

# Vacancies at Chalmers University of Technology



## Postdoctoral position in electric urban transit operations

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The Department of Architecture and Civil Engineering has about 290 employees encompassing a broad theoretical knowledge base, from engineering science to the social sciences to the humanities, as well as design-based, artistic research. The combination of all of these perspectives allows for great interdisciplinary advancement in the field and a broader discussion of various aspects of sustainability. Together, we provide a comprehensive environment for architecture and civil engineering, well equipped to take on the common challenges of building a sustainable future.

### Information about the Urban Mobility Systems research group

Urban Mobility Systems research group is a newly established group within the Division of Geotechnics and Geology, Department of Architecture and Civil Engineering. The group is focused on improving safety, efficiency, and sustainability of our future urban mobility systems, from an infrastructure centred perspective. The group is collaborating with NTNU in Norway and a few Chinese Universities for electric bus scheduling and optimisation, and using connected solutions for improving public transit operations.

### Major responsibilities

The postdoc will help Prof Xiaobo Qu to coordinate the project, and under Prof Xiaobo Qu's supervision to develop models with respect to 1) electric fleet management; 2) connected public transport solutions; and 3) electric bus scheduling and energy management.

The candidate is required to take some supervisions of master students (up to 3 per year), and if required some teaching commitment (minimal).

The candidate will need to help Prof Xiaobo Qu to draft proposals as per required.

### Position summary

Full-time temporary employment. The position is limited to a maximum of two years (1+1).

### Qualifications

To qualify for the position of postdoc, you must have a doctoral degree in engineering or other relevant field; the degree should generally not be older than three years. It is required that you at least are close to complete a Phd, thesis must be submitted and under examination.

The position requires sound verbal and written communication skills in English. Chalmers offers Swedish courses.

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in all activities at Chalmers.

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### Application procedure

The application should be marked with Ref 20190106 and written in English. The application should be sent electronically and be attached as pdf-files, as below:

**CV:** (Please name the document as: CV, Surname, Ref. number) including:

- CV, include complete list of publications
- Previous teaching and pedagogical experiences
- Two references that we can contact.

**Personal letter:** (Please name the document as: Personal letter, Family name, Ref. number) including:

- 1-3 pages where you introduce yourself and present your qualifications.
- Previous research fields and main research results.
- Future goals and research focus. Are there any specific projects and research issues you are primarily interested in?

### Other documents:

- Attested copies of completed education, grades and other certificates.
- Fulltext of your best publications (max 2)

Please use the button at the foot of the page to reach the application form. The files may be compressed (zipped).

**Application deadline: 5 April, 2019**

### For questions, please contact:

Professor Xiaobo Qu

E-mail: [xiaobo@chalmers.se](mailto:xiaobo@chalmers.se)

\*\*\* Chalmers declines to consider all offers of further announcement publishing or other types of support for the recruiting process in connection with this position. \*\*\*

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*Chalmers University of Technology conducts research and education in engineering sciences, architecture, technology-related mathematical sciences, natural and nautical sciences, working in close collaboration with industry and society. The strategy for scientific excellence focuses on our eight Areas of Advance; Building Futures, Energy, Information & Communication Technology, Life Science, Materials Science, Nanoscience & Nanotechnology, Production and Transport. The aim is to make an active contribution to a sustainable future using the basic sciences as a foundation and innovation and entrepreneurship as the central driving forces. Chalmers has around 11,000 students and 3,000 employees. New knowledge and improved technology have characterised Chalmers since its foundation in 1829, completely in accordance with the will of William Chalmers and his motto: Avancez!*

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