

# Vacancies at Chalmers University of Technology



## Postdoctoral position in Emergency Responses for Smart Urban Mobility

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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 research

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 Medfield AB, EVAM, WSP, RISE, and Uppsala University for a large project of emergency services for smart urban mobility. This consortium will be working with their Chinese counterparts led by Southeast University for international efforts.

### Major responsibilities

The postdoc will help Professor Xiaobo Qu to coordinate the project, and under Xiaobo's supervision to develop traffic control and simulations for emergency vehicles in the event of traffic accidents. The project includes pre-hospital screening, infrastructure adaptation, traffic flow control and system simulation. It will provide a unique opportunity for multi-disciplinary bi-lateral joint effort towards an important topic. The postdoc might need to work in China up to 1 month per year.

The postdoc will be required to supervise master students (max 3 projects per year) as main supervisor if opportunities arise. The postdoc will have very minimal teaching (up to five lectures/tutorials per year).

The postdoc may be required by Professor Xiaobo Qu to assist in preparing grant proposals in the area of interest.

### 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 (or close to complete) in a relevant field; the degree should generally not be older than three years. You are expected to be somewhat accustomed to teaching, and to demonstrate good potential within research and education.

The position requires sound verbal and written communication skills in English.

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### **Application procedure**

*The application should be marked with Ref 2019105 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.

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:**

Xiaobo Qu, Professor, Chair of Urban Mobility Systems, [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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