

One doctoral position in *urban planning* + One doctoral position in *transport modelling* at the University of Liege, Belgium

The research group *Local Environment Management and Analysis* (LEMA) of the University of Liege is seeking **two doctoral candidates** for conducting research on scientific projects strongly related to urban planning and mobility.

For more than 30 years, LEMA has led basic and applied research in the domain of the local environment, in both its *physical* (urban quarters, housing, public spaces), *cultural* (cultural heritage, tourism), *perceptive* (townscape, visual and thermal comfort) and *social* (quality of life, urban cohesion) dimensions. The activities of the laboratory are mainly based on a combination between computer modelling and social methods (qualitative and quantitative).

LEMA gathers 3 full-time professors, 3 senior researchers and 10 international PhD researchers. Our research team has a strong experience in building collaborative research, associating academic partners, local authorities and community groups.

LEMA is presently involved in two major European projects:

- SHELTER dedicated to *Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement* (H2020 project) ;
- Wal-e-Cities dedicated to the implementation of Smart City policies through adequate provision of Mobility services.

LEMA has developed over the years a strong record in welcoming doctoral and post-doctoral researchers. The group published 120+ scientific papers in highly ranked peer-reviewed journals. These publications are available from the following [page](#).

Function

We are looking for highly motivated doctoral candidates to join our group and contribute to two on-going scientific research projects dealing with urban planning and transport.

Transport modelling. You are developing innovative methods the FEDER project "Wal-e-Cities". This project aims at the development of Smart Cities in the Walloon region of Belgium, focusing on the use of innovative (automated) data collection systems as a backbone to support this development. The successful candidate will perform research on the development of a traffic demonstrator, i.e. an agent-based travel demand framework. This explicitly takes into account the accumulation of data through means of ubiquitous sensor networks. You will be author on journal articles and conference



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presentations, and coordinate interactions between diverse project team members, and assure the administrative reporting of the project.

Urban resilience. You are in charge of several tasks of the European H2020 Shelter project (coordinated by [Tecnalia](#), Spain). You are developing innovative tools to support community-based approaches for enhancing resilience of urban historic areas. This includes proposing new collaborative governance schemes to reduce risks related to major natural disasters in historic areas. The research addresses the 4 phases of disaster risk management 4 phases (prevention, preparedness, response and recovery). It will place great emphasis on the use of data driven technologies in promoting adaptive governance and community approaches. It is based on geosciences so as to extract spatial information and knowledge available through social media.

Profile

Applicants for doctoral position must have completed a master degree in a field closely related to urban planning, geosciences, geography, computer sciences, engineering. Excellent written and verbal English communication skills are required. French literacy is an asset.

For the PhD in Transport Modelling, preference will be given to candidates with a strong interest and some level of proficiency in computer programming. For the PhD in urban resilience, preference will be given to candidates with a solid background in geosciences.

We offer

Candidates will be fully funded (tax-free monthly allowance, approx. 2,100 € at the doctoral level) for up to 3 years. They will benefit from a dynamic working environment, with stimulating scientific support, state-of-the-art research facilities and advanced computational modelling tools. They may be requested to apply for extra funding.

The University of Liège offers a comprehensive and innovative training program ([link](#)), which enables early-career scientists to carry out their research in the best possible conditions, in compliance with the European Charter for Researchers ([link](#)).

How to apply?

Outstanding candidates should apply by email to jacques.teller@uliege.be with a curriculum vitae, full transcripts of Bachelor and Master studies, and two references. Short-listed candidates will have to take part in an oral interview at the University of Liege. The positions will remain open until filled; but the selection will start from July 1st, 2019. Starting date is expected in September 2019.



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