

# **Two PhD studentships in Architecture Spatial Planning for Sustainable Growth**

**Application deadline September 18, 2009**

“The new GIRON” is a research and development program where both PhD-students and senior researchers will collaborate together with local authority and business stakeholders in the field of sustainable urban planning with specific focus on social change in the ore fields, mainly the towns of Malmberget and Kiruna. The vision with the new GIRON is to create an urban environment for sustainable growth, which also includes the creation of attractive living conditions, i.e. a sustainable urban development. We will focus on infrastructure and buildings that have a major impact on our perception of our urban living conditions which also is a prerequisite for economic growth. Design of and the use of infrastructure and building also has a major impact on the sustainability of our society.

## **PhD studentship in flexible building and urban planning**

*Reference number 1543-09*

We search for a PhD-student in Architecture to investigate and develop flexible buildings and planning as solutions for built-up areas temporarily densification of existing settlements as a part of urban transformations. Such densifications are able to retain the existing city livable and attractive despite uncertainties about the tempo of the transformation. The aim with the PhD project is to further develop industrial prefabrication of buildings in a rational manner as well as high quality to create flexible buildings. These buildings will be removable but with the same quality on usability and aesthetics as permanent buildings. The project also includes development of planning, design and implementation of flexible urbanities which in all requires a high degree of innovation and collaboration.

Appropriate background is an architecture or civil engineering degree combined with an interest in the interface between technology and architecture as well as the relation between buildings and urban planning.

Contact person: Professor Kristina L Nilsson, Architecture, Kristina.L.Nilsson@ltu.se, Phone: +46 (0)920-491678.

## **PhD studentship in integration of urban and transport planning for harsh climate**

*Reference number 1544-09*

We search for a PhD-student in Architecture to provide applied knowledge of how urban structures, with integration of buildings and infrastructure, can be shaped to withstand harsh climates. The aim is to investigate how, in a long term sustainable way, practical, constructive and functional structures. The idea is to illustrate, explore and critically examine planning and

designing traffic and built-up structures, together with processes to integrate them in order to achieve robust and sustainable urban development. Large parts of Scandinavia and the rest of world include areas where the climate provide high demands on the shape of the urban structures, how buildings, urban areas and communication systems are planned and designed, and how they integrate and interact with one another.

Appropriate background is civil engineering, architecture or master's degree with a focus on urban and transport planning.

Contact person: Professor Kristina L Nilsson, Architecture, [Kristina.L.Nilsson@ltu.se](mailto:Kristina.L.Nilsson@ltu.se), Phone: +46 (0)920-491678.

## **Qualifications**

The qualifications required for the PhD studentship appointment are a Master's degree in engineering, architecture or other suitable subject. For all alternatives, a Master's degree in a subject that has methods or applications relevant to the research area is necessary. An additional requirement is research study ability. The PhD-student position is a four-year appointment which means education at the post graduate level, resulting in a doctorate degree.

The union representatives can be reached via phone, +46(0)920-491000. Information on employment as PhD-student can be obtained from the Registrar +46(0)920-492236. You will also find information on the university website [www.ltu.se](http://www.ltu.se), vacancies or research/education at the PhD-level.

## **APPLICATION**

We want your application, marked with reference number, September 18, 2009 the latest, to Luleå University of Technology, Registry, SE-971 87 Luleå, Sweden. You can also send your application electronically to [registrator@ltu.se](mailto:registrator@ltu.se).