

The Department of Earth Observation Science (EOS) of the Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente in Enschede, the Netherlands, has a full-time vacant position:

PHD CANDIDATE (PROMOVENDUS) F/M "AUTOMATED 3D RECONSTRUCTION OF LARGE INDOOR ENVIRONMENTS FROM POINT CLOUDS"

THE CHALLENGE

You will work in the project "Smart 3D indoor models to support crisis management in large public buildings" in collaboration with the Delft University of Technology. This project is funded by the Technology Foundation STW, part of the Netherlands Organisation for Scientific Research NWO.

The goal of this project is to develop methods for (semi-) automated reconstruction of 3D models of large indoor environments from point cloud data. Based on grammar the approach should recognize the principles of interior architectural design and human perception to identify spaces that can be used for navigation. The level of modelling detail should be adapted to the navigation needs. The project involves partners from industry (Cyclomedia and CGI) as well as the government (Fire brigade) who will participate in the evaluation of the methods on test buildings.

YOUR PROFILE

You must hold an MSc degree, obtained no more than 5 years ago, related to geoinformatics, with excellent expertise in laser scanning or photogrammetry/computer vision, and programming. Because of the involvement of companies and end users it is required that you must be at ease communicating and discussing with these partners (in English). In joint meetings research results must be presented to them and next steps discussed. Some limited contributions to education may be required.

OUR OFFER

We offer an inspiring and challenging international and academic environment. You will be employed as a University of Twente staff member for a period of 4 years (fulltime). Salary and conditions will be in accordance with the Collective Labour Agreement (CAO-NU) of the Dutch Universities. Your gross monthly salary starts at € 2,125.- (first year) up to € 2,717.- (the fourth year) exclusive of allowances, in accordance with the job profile Promovendus, under the University System for Job Classification (UJC). Costs for moving to Enschede may be reimbursed.

INFORMATION AND APPLICATION

Additional information about this position can be obtained from Professor George Vosselman (george.vosselman@utwente.nl, phone: +31 53 4874 344). You are also invited to visit our homepage: <http://www.itc.nl>.

Please submit your application through the form on www.utwente.nl/vacatures/en/ before 1 March 2015.