

Full Time: Software Developer – Modelling and Simulation

Availability: From July 2016 and onwards
Contact: Daniel Zehe (daniel.zehe@tum-create.edu.sg)
Location: TUM CREATE, Singapore

Background

We have open software developer positions in the area of Modelling and Simulation.

Job Description

As a software developer in the Area Interlinking Design Analysis (AIDA) group of TUM CREATE, you will be responsible to support the main development activities in the field of Modelling and Simulation. This includes the development and implementation of novel transportation engineering simulation tools, which are proposed by the scientific staff. These tools are one of the corner stones for a successful analysis of the next generation transport concepts developed within TUM CREATE.

Current development work in AIDA consists of high performance C++ based transportation scenario analysis platform that need to be extended and improved to answer upcoming scientific questions. Prospected candidates are also expected to enrich the tool chain and services that lead to front-end development for non-technical staff.

Requirements

- Candidates should at least have a Bachelor's degree in computer science, computer engineering or other relevant field.
- Candidates with 1 to 2 years of work experience in industry are strongly preferred.
- Excellent programming Skills
- C++, Java and one scripting language required
- Experience in working with UNIX tool chains
- Knowledge modelling and simulation techniques (e.g agent-based, PDES,...)
- Expertise in software design and state-of-the-art techniques
- Experience in software development processes (e.g. agile)
- Basic scientific methodological understanding
- Excellent documentation and communication skills for internal and external presentation as well as scientific discussions

What we offer you

- An international and multidisciplinary working environment
- Opportunity to work on a project with real- life relevance and state of the art robotic systems

Send your resume/CV to the contact person if interested

NOTE: Only shortlisted candidates will be contacted

ABOUT TUM CREATE

TUM CREATE innovates. We are developing cutting-edge electric vehicle technologies and pioneering future transportation concepts for meeting the growing transport and sustainability challenges in fast-growing tropical megacities. Germany's *Technische Universität München* (TUM) and Singapore's *Nanyang Technological University* (NTU) — two world-leading engineering universities — have come together to collaborate on this ambitious joint research programme. It is funded by Singapore's National Research Foundation.

