

Full Time: Software developer for computer graphics and virtual reality based systems

Availability: From Jan 2017 and onwards
Contact: Dr. Suraj Nair suraj.nair@tum-create.edu.sg
Location: TUM CREATE, Singapore

Background

We have open position for experienced software developers for developing, maintaining and operating virtual reality based big data visualization systems

Objective & tasks

TUM CREATE is researching into the Ultimate Public Transport System for Singapore. Autonomous mobility and enabling infrastructure will be a key focus. The research results emerging from the different research groups will be demonstrated in a unified virtual platform. The platform will provide an experience beyond visualization. It will serve as a immersive demonstrator which will use cutting edge technology in computer graphics and virtual reality to enable scientific technology demonstration to researchers, Singaporean agencies, and the general public. The candidate selected for this job will work on the software development aspects of such a demonstrator.

Min. Years of Experience: 2-5 years

Degree Level: Master/Bachelor

Degree Specialisation: Computer Science

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

Soft Skills

- Ability to work independently on tasks
- Ability to work in groups consisting of software developers and scientific researchers
- Team player and goal oriented

Programming Skills

- C++, Java, Python
- Comfortable with Linux, CMake, Git

Technical Requirements

- Knowledge and experience in concepts related to computer graphics and rendering systems
- Knowledge and experience with of computer graphics frameworks such as OpenGL, VRML, Coin, SoQT, OpenSceneGraph, OpenInventor, Unity 3D
- Experience with graphics modelling tools such as Blender, Maya
- Ability to collaborate with groups consisting of software developer and researchers
- Knowledge of motion capture systems for Virtual/Mixed Reality
- Knowledge/Experince with CAVE systems, VideoWalls, Stereoscopic Renderers

Send your resume/CV to the contact person if interested

NOTE: Only shortlisted candidates will be contacted

ABOUT TUM CREATE

TUM CREATE is a research platform for the improvement of Singapore's public transportation, including the deployment of electric and autonomous mobility. At TUM CREATE, researchers from Technical University Munich and Nanyang Technological University join forces and are funded by Singapore's National Research Foundation as part of the Campus for Research Excellence And Technological Enterprise (CREATE) to investigate into next generation transportation systems. TUM CREATE is organised into 6 different research groups with each group bringing world-class expertise in their respective domains to study the different problems in establishing the Ultimate Transportation System of the future in Singapore.

