

## Postdoctoral Researcher, Machine Learning for 3D Reconstruction

We are currently establishing the Vision, Graphics and Computational Design (VGD) Group at the Information Systems Technology and Design (ISTD), the Singapore University of Technology and Design (SUTD). SUTD is a brand new university established with the Massachusetts Institute of Technology (MIT).

Our group is interested in research related to image, vision, graphics and fabrication.

We have strong collaboration with various outstanding institutions including MIT, Zhejiang University (ZJU), Stanford University, University of California, Los Angeles (UCLA), TU Berlin, Fraunhofer Society, ETH, Hong Kong University of Science and Technology (HKUST), Chinese University of Hong Kong (CUHK), National University of Singapore (NUS) and Nanyang Technological University (NTU).

We are looking for a postdoctoral researcher (2 years funded project) who is keen to work on deep learning algorithms for multimodal 3D reconstruction from point clouds and images.

### **Responsibility:**

- Develop novel machine learning approaches for 3d reconstruction with multimodal inputs, based on deep learning architectures
- Drive research efforts towards papers for high level venues
- Design experiment setups and run them
- Interact closely with different members in the research group.
- Writing testable code

### **Desired Skills and Expertise:**

- PhD degree in relevant fields and Publications in appropriate venues
- Hands on experience in at least one of the major deep learning toolboxes
- Understanding of principles of machine learning and deep learning in particular.
- Experience in computer vision or computer graphics is a plus.
- Experience in Multi-view stereo and structure from motion is a plus.
- Code examples, e.g. in github are a plus
- Comfortable working in a fast-paced, constantly evolving and multidisciplinary environment
- Strong interest in prototyping new software and writing conference and journal papers

Please submit your CV to [sakit@sutd.edu.sg](mailto:sakit@sutd.edu.sg) and specify your availability and salary expectation.

*All data collected will be treated strictly confidential and used for recruitment purposes only. All information of unsuccessful candidates will be destroyed within 6 months.*