

Job Position

The Singapore University of Technology and Design along with Massachusetts Institute of Design is hiring for a Postdoctoral Fellow:

Project Description

This project focuses on a research question which asks if design centric data visualisation can be best tackled from a 'decision first' point of view. This is in contrast to a 'data first' approach where the visualisation is dictated by the most appropriate way to show the data. A decision first approach would consider the actors and context of the activity,

The research is highly disciplinary but anchored in Architecture, Structural Engineering and Geography by, Sam Joyce (PI), Caitlin Muller (Co-PI), and Ate Poorthuis (Co-PI) respectively. Whilst somewhat disparate the spatial, visual, analytical and subjective nature of these disciplines makes them uniquely interesting when considering how decisions are made. Typically with buildings, master plans or government initiatives there is a complex set of stakeholders with executive power. This project aims to research and consider what types of visualisations are required to provide the best insight to help these people make these decisions.

Researcher Description

We are keen to take on someone who is enthusiastic about design and data visualisation. The job aims to give a motivated self-starter the research freedom and space to explore new concepts, supported and guided within a group of domain experts with strong academic and industrial backgrounds. The SUTD environment is new and well suited to those with initiative both professionally and socially.

Domain Background (one of)

Engineer, Architect, Geographer, Data-Scientist, Web/front-end developer

Education

Relevant master's degree or doctorate in one of the above fields.

Skills

Keen Design Sense

Understanding of design or creative process

Experience in programming design projects

Required Proficiency

Python &/or Javascript

Photoshop / Creative Suite

Desired Proficiency

D3.js &/or Node.js experience

3D modelling

WebGL / three.js
Rhino/Grasshopper/Dynamo
Data science / Analytics

Job Details

One-year contract with potential to extend (the current project is 2 years)
Salary is competitive
The role is based primarily in SUTD Singapore
Principal Dedicated Research Hire

Benefits

Health Insurance
Time for publication
Funding for international conferences and visit(s) to MIT

Requirements

Letter of interest
C.V.
Recent publication (if any) or work portfolio (if relevant)
Links to current online work / GitHub (if relevant)

Applications will be made on a first come basis until the position is filled

Any research or position questions direct to sam_joyce@sutd.edu.sg