

The Future Cities Laboratory (FCL) is the first research programme of the Singapore-ETH Centre for Global Environmental Sustainability (SEC). SEC is home to a community of over 120 researchers working on a joint vision for future cities and environmental sustainability. More information on: www.futurecities.ethz.ch

The 'Multi-scale Energy Systems' module of FCL, lead by the Architecture & Building Systems Group of ETH Zürich, Prof. Arno Schlueter, focuses on an integrated and multi-scale perspective to the analysis and design of high-performing building systems in cities. From the building to the district scale, the motivation and aim of our research is to drastically reduce greenhouse gas emissions and increase the well being of city dwellers. The research is based on the identification and integration of advanced technologies, methods and processes from the fields of urban planning & design, energy- and climate systems in buildings, information and communication technologies. The module is part of the overarching interdisciplinary project 'High-density mixed-use cities'.

Starting in November 2015 or under agreement we offer a **post-doctoral research OR research assistant position** in the field of:

Design Integration of Urban Energy Systems

Your tasks: Your work will focus on the research and development of new urban design patterns and prototypes for the deep integration of current and future energy systems for the efficient and renewable supply of buildings. From building to city scale you will identify and leverage synergies between spatial planning, energy systems and occupancy / user behavior. This works is done in close collaboration with other modules (urban ecology, urban design etc.) within the project.

Your profile: We are looking for highly skilled and motivated candidates with background in qualitative and quantitative urban modeling and design ideally related to urban energy systems OR urban energy systems modeling with interest and experience in urban design. Your profile should meet the following requirements:

- Master's degree in Architecture, urban design/planning or engineering.
- PhD in urban modeling and design research or urban energy systems modeling and design research is preferred.
- Work and/or academic experience documented in excellent and relevant projects or publications.
- Good data representation and visualization skills in the urban context.
- Good knowledge on building and / or urban scale energy and climate systems (e.g. HVAC) and experience in modeling / simulation.
- Strong spatial modeling skills (GIS / CAD /BIM)
- Application skills in data analytics / post-processing of simulation data

- Strong communication, interpersonal and teamwork skills

Your English must be fluent, both written and spoken. German / French / Italian / Spanish skills are welcome.

Our offer:

We offer a position in our international and interdisciplinary research group based at the Future Cities Laboratory (FCL) in Singapore. In this renowned, vibrant and highly innovative setting, you will work on solutions with the most innovative research groups in the field. ETH is an equal opportunity employer and offers a competitive salary. Your workplace will be Singapore with frequent exchange with the group located in Zurich.

How to apply:

Please apply including a comprehensive CV and selected samples of your most relevant work (projects and/ or academic). Please apply online on www.jobs.ethz.ch. For questions please contact Jimeno A. Fonseca (fonseca@arch.ethz.ch).