05 October 2018

Postdoctoral fellow in geospatial modelling and analysis for urban energy and emissions

The elementslab in the School of Architecture and Landscape Architecture (SALA) at the University of British Columbia seeks a full-time Postdoctoral Fellow to bring geospatial modelling and analysis capability to an interdisciplinary urban design research group based in the Centre for Interactive Research on Sustainability (CIRS). This full-time Postdoctoral Fellow position begins as early as January, 2019. For additional information about Postdoctoral Fellow appointments at the University of British Columbia: https://www.postdocs.ubc.ca

This Fellow will contribute to ongoing funded research investigating building to community scaled solutions that reduce energy demand and emissions across a diversity of urban form and community types. He/she will provide research and technical support to two faculty principal investigators and assist with supervising a small (up to 6 member) team Masters level research assistants. Supplementary part-time teaching roles within SALA may also be considered. The ideal candidate will embrace working in a team-based work context and appreciate the challenge of working in a cross-disciplinary research environment.

The elementslab (https://www.elementslab.ca) is an urban design and environment focused research group that investigates methods of measured visualization in the development of new knowledge, processes and tools for effective, creative integration of environmental issues with the planning and design of cities and neighbourhoods. Our expertise spans the disciplines of urban design, landscape architecture and architecture and we work across scales from regions to buildings. Our current work focuses on issues of energy and emissions reduction at urban and building scales. We engage these themes through many academic and research interactions in CIRS (http://cirs.ubc.ca) and the 'living laboratories' of UBC campus, the Vancouver metropolitan region and Canadian cities.

SALA (https://sala.ubc.ca) is a collaborative academic community of approximately 300 students and 24 faculty offering professional graduate programs in architecture and landscape architecture, post graduate programs in urban design and high-performance buildings and an
undergraduate program in environmental design. We are committed to quality design education directed toward the urgent human and environmental issues of our times, and to the artful integration of the built and natural environment across scales.

**Qualifications:**
Candidates must hold a recent (within 5 years) Ph.D. degree in an architecture, landscape architecture, geography, urban studies or a closely related field at time of appointment with deep technical and theoretical knowledge in geospatial modelling and analysis applicable in an urban built environment context.

The successful candidate will have demonstrated research expertise in:
- Geographic Information Systems (GIS), including spatial analysis and geospatial modelling (required)
- Urban Analytics, including data analysis and database applications (required)
- Working across spatial scales, from buildings to neighbourhoods, to cities / regions (required)
- Working in interdisciplinary research teams, for example architects, engineers, planners, science and social science domain experts (required)
- Authorship of research related peer review publications, conference papers and presentations (required)
- Urban design, geodesign, architecture or a related design field (strongly desired)
- Built environment visualization and/or geo-visualization (strongly desired)
- Scenario- or future studies-related methods and approaches (strongly desired)

**To apply:**
Submit a letter of interest, curriculum vita and selection of work samples (up to 10 pages should be sufficient) via email to:

Professor Ronald Kellett  
School of Architecture and Landscape Architecture  
University of British Columbia  
rkellett@sala.ubc.ca

Applications should be received by November 15 2018. Short-listed candidates will be contacted for further information and interview shortly after. However, applications remain open until the position is filled.