RESEARCH FELLOW – JIBE PROJECT

DEPARTMENT/UNIT
Urban Planning and Design, Department of Architecture

FACULTY/DIVISION
Monash Art Design & Architecture (MADA)

CLASSIFICATION
Level B

DESIGNATED CAMPUS OR LOCATION
Caulfield campus

ORGANISATIONAL CONTEXT

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You’ll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you’ll need to publish your work. We’re a university full of energetic and enthusiastic minds, driven to challenge what’s expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The Faculty of Art, Design and Architecture: In Melbourne, art, design and architecture are leading influences on the city’s internationally recognised cultural dynamism, exhibited through significant collecting and exhibiting institutions, commercial galleries and innovative cultural production. Within this rich milieu, Monash Art Design and Architecture (MADA) is a vibrant centre of rigorous creative practice, encompassing architecture, design and fine art integrated with traditional scholarship. MADA advocates the essential role of creative practice in quality of life and proposes and develops models for future communities that are culturally enriched and environmentally sustainable. To learn more about MADA, please visit our website: www.monash.edu/mada.

The Monash Faculty of Art, Design, and Architecture (MADA) is well-known internationally for its practice-based research. The Faculty is the home of state-of-art research facilities (e.g. iHub, AR/VR) distributed across its iconic research labs including Monash Urban Lab, Emerging Technologies Research Lab, Mobility Design Lab, Informal Cities Lab, XXY Lab, and Design Health Collab. MADA places a great emphasis on intra- and cross-faculty collaboration (e.g. Faculty of Engineering, Faculty of Information Technology) to foster multidisciplinary research.

Urban Planning and Design (UPD) at Monash University began its journey in 2018 with a strong vision to be a leader in planning and design research. It is an emerging strength at Monash, and MADA has made several strategic appointments to further develop this strength, including that of Professor Kamruzzaman and Professor Carl Grodach, who led the Monash Urban Lab. In a short time, Monash UPD has been successful in securing several competitive research grants (including ARC and NHMRC) signifying its supportive research environment and collegial culture. It has developed strong connection with international/national research communities, governments, and practices; evidenced by the hosting of research visitors, editorial roles of its staff members, collaborative research outputs, studio based teaching philosophy, and students’ placement.
POSITION PURPOSE
The Research Fellow will work on a project funded by National Health and Medical Research Council (NHMRC), Australian and UK Medical Research Council (MRC). The project, entitled as ‘JIBE: Joining Impact models of transport with spatial measures of the Built Environment’, aims to reduce non-communicable diseases (NCDs) and health inequities for English city regions and Melbourne through built environment interventions. JIBE is co-led by RMIT University and the University of Cambridge, and involves a multi university collaboration across Australia (RMIT, Monash University, University of Melbourne, University of Queensland) and England (University of Cambridge, Imperial College London, London School of Hygiene and Tropical Medicine, University of Leicester). This collaboration provides a unique opportunity for the fellow to be connected with leading researchers in the field.

The project is divided into seven work packages (WP). The fellow will be based at Monash University and be primarily involved in WP2, which aims to develop and visualise both policy-relevant and evidence-informed built environment spatial measures and indicators. Despite this focus, the role requires active collaboration with other fellows and investigators across the universities involved to inform (and to be informed) other WPs. The fellow will source spatial/non-spatial data, conduct spatial analysis to derive measures/indicators at different scales, devise data storage and dissemination strategies, and apply innovative visualisation strategies of the data. It is anticipated that the outcome of this research will provide evidence and support policies and projects that will help improve public health through increased active travel and deliver a healthier built environment.

This role is a full-time position for one year; however, flexible working arrangements may be negotiated.

Reporting Line: The position reports to Associate Professor Liton Kamruzzaman

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES
Specific duties required of a Level B research-only academic may include:

1. Develop and participate in the successful delivery of JIBE project
2. Conduct original research that will lead to publications in refereed journal articles and policy briefs
3. Contribute to the preparation of research proposal submissions to external funding bodies
4. Occasional contributions to the teaching program of Urban Planning and Design
5. Co-supervision or supervision of major honours or postgraduate research projects in Urban Planning and Design
6. Attendance at JIBE, school and/or faculty meetings as required
7. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
   - A Ph.D in Urban Planning, Civil Engineering, Spatial Science, Geography, Remote Sensing, Data Science; or
   - equivalent qualifications or research experience
Knowledge and Skills

2. Deep understanding of how the built environment affects travel behaviour
3. A promising record of research excellence, evidenced through relevant research grants, publications, project outcomes, and professional esteem
4. High level organisational and interpersonal skills with the ability to work both independently and as part of an inter-disciplinary research team
5. High level organisational skills, with demonstrated capacity to establish and achieve goals
6. Advanced analytical skills of using a range of statistical and spatial analytical software such as SPSS, Stata, Eviews, NLOGIT, ArcGIS, QGIS, and other online/digital mapping technologies and related spatial services
7. Experience with creation, storage, maintenance and dissemination of spatial datasets and production of GIS products, including the creation of local and distributed/cloud-based analytical workflows
8. Demonstrated experience of scripting and data manipulation languages (such as Python, R, or Matlab) will be viewed favourably

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.