



Research Assistant – Bio-composite fabric for heat regulation in buildings (F/T or P/T)

Applications are invited from suitably qualified candidates for research assistantship positions either on full-time (1 position) or part-time (up to two positions on 0.5 FTE) basis, to work on the research project entitled “**Natural-fibre based bio-composite panels for heat regulation in the built environment**”, for a contractual period of 7.5 months.

The research assistant(s) will carry out experimental works and simulation analyses to develop and test the performance of the bio-composite fabric developed from natural fibres to improve energy efficiency and thermal comfort in buildings in Mauritius through both lab-based and in-situ experiments in communities.

Qualifications Required:

- A first degree in Mechanical Engineering/Mechatronics Engineering/Chemical Engineering/Civil Engineering or any related degree to the field of the research project of at least Second-Class Second Division (2-2).

Desired Background

- Candidates with project experience in field/community works with data collection and analysis are encouraged to apply.

Profile

Candidates must have:

- Good research, analytical and communication skills.
- Knowledge of sensors and instrumentation as part of field works.
- Knowledge of data analysis and interpretation techniques.
- Good interpersonal skills and ability to work in a team.
- Willingness to acquire further knowledge/skills in current areas of competencies as well as to learn new concepts outside current areas of competencies.

Responsibilities & Duties

- Carry out literature review in the related field of research;
- Perform field works and installation of instrumentation;
- Perform lab-based and in-situ experimental work, data collection and conduct different tests as per relevant standards;
- Devise a detailed research proposal under the guidance of the project collaborators;
- Present the research findings at conferences and workshops as deemed appropriate by the research team members;
- Report to the Principal Investigator and project collaborators;
- Work on journal publications, assist in report writing and presentation of results obtained.

Remuneration

- (A) Full-time position: a monthly salary of Rs 27,400/-, plus applicable allowances, bonus and travelling expenses by bus.
- (B) Part-time position (0.5 FTE): a monthly salary of Rs 13,700, plus applicable allowances and travelling by bus.

Duration of Contract

Appointment will be offered for an initial contractual period of 7.5 months. The proposed starting date is 1st September 2025.

Mode of Application

Applications should be sent by email to Assoc Prof Dr Mahendra Gooroochurn (m.gooroochurn@uom.ac.mu) and copied to the Dean of the Faculty of Engineering (deanfeng@uom.ac.mu) including a cover letter, a detailed *Curriculum Vitae* and scanned copies of qualifications and testimonials. The deadline to apply is **Friday 22 August 2025, at latest**. The email should have the subject “**Research Assistant – Bio-composite Fabric**”.

Applications received after the closing date will not be considered.

The University reserves the right:

- to call for interview only the most appropriately and best qualified applicants.
- not to make any appointment as a result of this advertisement.

Date: 06 August 2025

Dean, Faculty of Engineering