



## 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 6 months, extendible based on performance and availability of funds.

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;
- Undertake simulation studies in building energy modelling and dynamic simulation software;
- 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: an all-inclusive monthly allowance of Rs 35,353, plus reimbursement of travelling expenses by bus.

(B) Part-time position (0.5 FTE): a monthly salary of Rs 17,676.50, plus reimbursement of travelling expenses by bus.

### Duration of Contract

Appointment will be offered for an initial contractual period of **6 months**. The proposed starting date is 15 June 2026.

### Mode of Application

Applications should be sent by email to Assoc Prof Dr Mahendra Gooroochurn ([m.gooroochurn@uom.ac.mu](mailto:m.gooroochurn@uom.ac.mu)) and copied to the Dean of the Faculty of Engineering ([deanfeng@uom.ac.mu](mailto:deanfeng@uom.ac.mu)) including a cover letter, a detailed *Curriculum Vitae* and scanned copies of qualifications and testimonials. The deadline to apply is **Monday 8 June 2026, 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.