



Research Assistant – Development of Soil-Fibre Fabric for Buildings in Mauritius (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 “**Development of locally-adapted soil-fibre fabric for energy efficiency and thermal comfort enhancement in Mauritius**”, for a contractual period of 6 months.

The research assistant(s) will carry out experimental works and simulation analyses to develop and test the performance of soil-fibre fabric to improve energy efficiency and thermal comfort in buildings in Mauritius.

Qualifications Required:

- A first degree in Mechanical Engineering/Mechatronics Engineering/Chemical Engineering/Civil Engineering/Physics/ Mathematics or any related degree to the field of the research project of at least Second-Class Upper Division (2-1).

Desired Background

- Candidates with project experience in field 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, including installation of the test cells for the experimental set-up;
- Perform 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 6 months. The proposed starting date is 12 May 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 **Wednesday 30 April 2025, at latest**. The email should have the subject “**Research Assistant – Soil-Fibre 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: 15 April 2025

Dean, Faculty of Engineering