



UNIVERSITY OF MAURITIUS

VACANCY

Applications are invited from suitably qualified candidates for the post of **Research Assistant (Part-Time)**, to work on the research project entitled “**Assessing and Predicting the Mechanical Performance, Durability Attributes and Degradability Trait of 3D-Printed Specimens in Mauritius Climatic Conditions by Considering Artificial Intelligence Technology**”, for a contractual period of Ten (10) months.

Qualifications Required

- A degree in Mechanical Engineering, Mechatronics Engineering, Chemical Engineering or any degree related to the field of the research project.
- A degree in Mathematics, Physics or Chemistry may also be considered.

Profile

Candidates must have:

- Good research, analytical, communication and scientific writing skills.
- Adequate knowledge in the relevant field of research.
- Good organization and problem-solving skills.

Responsibilities & Duties

- Manufacturing of specimen through additive manufacturing process;
- Mechanical characterization of specimens by using the Universal Testing Equipment;
- Conducting a comprehensive literature review for this research;
- Apply AI to develop predicting model by using collected data;
- Develop methodology to conduct degradability tests;
- Report to the Principal Investigator;
- Collect, input and analyze data;
- Dissemination of results in peer-reviewed journals and conference proceedings; and
- Perform any other tasks related to the project.

Remuneration

A monthly all-inclusive allowance of **Rs13,700/-**, plus travelling expenses by bus.

Duration of Contract

Appointment will be offered for an initial contractual period of Ten (10) months, renewable if required. The proposed starting date will be 03 February 2025.

Mode of Application

Letter of application together with a detailed *Curriculum Vitae* and photocopies of qualifications, birth certificate, marriage certificate (if applicable), testimonials and equivalence of qualifications (where applicable) should reach **the Dean of the Faculty of Engineering (Attention: Dr R.Ramful), University of Mauritius, Réduit**, OR email address (*e-mail: r.ramful@uom.ac.mu*) and copied to (*deanfeng@uom.ac.mu*) by **Friday 24th January 2025 at latest**.

The envelope should be clearly marked “**Research Assistant for the project: Assessing and Predicting the Mechanical Performance, Durability Attributes and Degradability Trait of 3D-Printed Specimens in Mauritius Climatic Conditions by Considering Artificial Intelligence Technology**” on the top right hand corner.

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.
- to conduct a written/aptitude test as and when required.

13th January 2025

Dean Faculty of Engineering