



UNIVERSITY OF MAURITIUS

VACANCY

Applications are invited from suitably qualified candidates for the post of **Research Assistant (Full-Time)**, to work on a research project, entitled “*Solar Cooker: A Socio-Technological Approach to Sustainability*”, for an initial contractual period of four (4) months.

Qualifications Required:

- A good honours degree in Mechanical Engineering/Manufacturing Engineering/Production Engineering/Sustainable Product Design or any related **engineering or design** degree in the field of the research project.

Profile

Candidates must have:

- Sound research aptitudes, good communication and writing skills;
- Adequate knowledge and analytical skills in the relevant fields of research.
- Good organisation and problem solving skills;
- Good knowledge of computer aided design (2D and 3D) and modelling;
- Sound understanding of material, heat and mass transfer;
- An ability to design and conduct experiments, as well as to analyze and interpret data.

Responsibilities & Duties

- Carry out literature review in the field of research;
- Synthesize the existing results and observations from literature review and previous research;
- Collect, input and statistically analyse any additional data that may be required for the design of the solar cookers;
- Design and prototyping of portable solar cookers and features to suit the Mauritian context;
- Ergonomic re-designs and prototyping of solar cookers;
- Design and model 3D units on appropriate CAD software;
- Report to the Principal Investigator and other team members;
- Write reports and present obtained results to stakeholders;
- Write and submit manuscript based on research work conducted in international journals of high impact factor.

Remuneration

A monthly all-inclusive allowance of Rs 27,400/-, plus travelling expenses by bus.

Duration of Contract

Appointment will be offered for an initial contractual period of four (4) months on full-time basis renewable for a further one (1) month subject to satisfactory performance. The proposed starting date will be Monday, **09 January 2023**.

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 be emailed **to the Dean of the Faculty of Engineering at the email address (deanfeng@uom.ac.mu) and copied to Dr (Mrs) A Vaidya-Soocheta at (a.soocheta@uom.ac.mu) by Wednesday 07 December 2022, at latest.**

The subject of the email should clearly state “**Research Assistant - Solar Cooker: A Socio-Technological Approach to Sustainability**”.

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.

01 November 2022

Dean, Faculty of Engineering