

# VACANCY

## Post: RESEARCH ASSISTANT (Full-time)

Applications are invited from suitably qualified candidates for the post of **Research Assistant** (Full-Time), to work at the Gamma Materials Ltd laboratory under a MRIC funded CRIGS project, “**Investigation of the structural properties and performance of agro-waste fibre reinforced concrete**”, for a contractual period of twelve (12) months, renewable under mutual agreement.

### Qualifications Required:

- BEng (Hons) Civil Engineering or related/allied Civil Engineering fields, or BEng (Hons) Mechanical Engineering or BEng (Hons) Mechatronics Engineering or BEng (Hons) Chemical Engineering (Minors: Energy or Environmental Engineering).
- Good knowledge of chemistry (the candidate has to possess **at least grade B** in Chemistry as Main/Principal subject at HSC/‘A’ level).

### Profile:

Candidates must have:

- Good communication skills including report writing.
- Knowledge of basic statistics and statistical analysis of experimental data.
- Good interpersonal skills and ability to work in a team.
- Ability to work within agreed timelines and to communicate clearly and effectively.
- Willingness to acquire further knowledge/skills in current areas of competencies as well as to learn new concepts outside current areas of competencies.

### Main Responsibilities & Duties

- Carry out literature review in the related field of research.
- Extraction of fibres from different local plants and agro-wastes.
- To perform relevant main duties (such as collection of agro-wastes and plants from fields, fibre extraction, chemical & other treatments, Mechanical Engg & Civil Engg testing, etc.).
- Perform tensile testing of fibres in the relevant lab at the University of Mauritius.
- Use of equipment such as FTIR at the University of Mauritius for testing purposes.
- Design, conduct and run experimental work to treat the fibres.

- Design, conduct and run experimental work to develop fibres reinforced concrete composites.
- Conduct relevant tests to characterise and assess the performance of the fibre reinforced concrete composites.
- Preparation of regular progress report as well as the final report.
- Assist in the presentation of results obtained.
- Attend seminars and workshops as deemed appropriate by the research team.
- Any other cognate duties as defined by the Project Leader.

**Remuneration:**

A monthly basic salary of Rs 27,000/-, plus travelling expenses, based on bus fares.

**Duration of Contract:**

Appointment will be offered for a full-time employment (45 hours per week) for a contractual period of twelve (12) months, renewable under mutual agreement. The proposed starting date will be February 2022 and may change depending on the evolution of the COVID-19 pandemic in Mauritius.

**Mode of Application:**

Letter of application together with a detailed Curriculum Vitae and photocopies of qualifications, birth certificate, testimonials and equivalence of qualifications (where applicable) should reach the Gamma Materials Ltd HR Manager (Attention: Mrs. Isabelle Lew) on email address [isabelle.lew@gml.mu](mailto:isabelle.lew@gml.mu), and copied to [mahen.conhyea@gml.mu](mailto:mahen.conhyea@gml.mu) by 21<sup>st</sup> January 2022 at 15:00, at latest. The e-mail should be clearly marked "**Research Assistant for Investigation of the structural properties and performance of agro-waste fibre reinforced concrete**". Applications received after the closing date will not be considered.

Gamma Materials Ltd 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.

7<sup>th</sup> Jan 2022