



VACANCY

Applications are invited from suitably qualified candidates for the post of **Research Assistant**, for a **task-based assignment** to work on a project entitled "**Implementation of Intelligent Battery Management System**" for a contractual period of twelve (12) months.

Qualifications Required:

- A degree in Electrical/Electronics//Mechatronics Engineering, or equivalent.

Profile

Candidates must have:

- Strong background in processor hardware and software system design and simulation software (with practical project experience preferred).
- Ability to perform experimental setups, data collection, and analysis related to battery performance and durability.
- Knowledge of battery management systems, photovoltaic and renewable energy systems.
- Excellent analytical, problem-solving, and communication skills.
- Strong interpersonal and teamwork abilities.

Task 1: Planning & Design

- 1.1 Battery Health Assessment:** Initial screening and categorization of supplied EV battery units based on residual capacity.
- 1.2 System Architecture:** High-level design of the modular storage unit and PV integration parameters.

Task 2: Development & Testing

- 2.1 Prototype Assembly:** Integration of battery modules with the control interface and safety enclosures.
- 2.2 Laboratory Validation:** Controlled testing of charge/discharge cycles and safety protocol verification.

Task 3: Pilot Implementation

- 3.1 Residential Deployment:** Installation of the pilot unit in a selected residential environment.
- 3.2 Performance Monitoring:** Real-time data collection via IoT interface to evaluate system reliability and efficiency.

Task 4: Evaluation & Scaling

- 4.1 Impact Analysis:** Review of energy savings, environmental impact, and battery degradation data.
- 4.2 Final Reporting:** Submission of the project closure report and recommendations for large-scale rollout.

Remuneration

For Task 1: an all-inclusive allowance of **Rs 75,000/-** upon satisfactory completion

For Task 2: an all-inclusive allowance of **Rs 125,000/-** upon satisfactory completion

For Task 3: an all-inclusive allowance of **Rs 175,000/-** upon satisfactory completion

For Task 4: an all-inclusive allowance of **Rs 125,000/-** upon satisfactory completion

Duration of Contract

For the task-based assignment (including Tasks 1, 2, 3 and 4) appointment will be offered for a contractual period of twelve (12) months. The tentative starting date will be **30 March 2026**.

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 sent **by email** to Assoc Prof Dr A Khoodaruth (a.khoodaruth@uom.ac.mu) and copied to the Ag. Dean of Faculty of Engineering (deanfeng@uom.ac.mu) by Friday, 6 March 2026, at latest by 2 pm.

The email subject should read "**Research Assistant for the Project: Implementation of Intelligent Battery Management System**". Applications received after the closing date will not be considered.

The University reserves the right:

- To call for interview only the most appropriate 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.

23 February 2026

Dr R Unmar
Ag. Dean, Faculty of Engineering