



UNIVERSITY OF MAURITIUS

VACANCY

Applications are invited from suitably qualified candidates for the post of **Research Assistant (Part-Time)**, for a **task-based assignment** to work on the research project entitled ***"InTraMs - Intelligent Traffic Management System"***, for a contractual period not exceeding **two (2)** months.

The identified tasks and respective remuneration are as follows:

Task 1: Web-based Application (Rs. 50,000)

- Develop a web app that will provide a front-end interface for users to feed in video streams and see both vehicle tracking and detection in real-time.
- Integrate the front-end interface with an existing deep learning model (available in-house) that performs vehicle tracking and detection.
- Perform integration testing of the web app.
- Test web-app with both trained and validation datasets.
- Any other cognate duties.

Task 2: Technical Documentation and Report Writing (Rs. 10,000)

- Create a user manual for the web app.
- Write reports on the web app development process, including any challenges faced and how they were overcome.
- Document any modifications made to the deep learning model during integration testing.
- Prepare project reports and presentations for the research team and stakeholders.
- Any other cognate duties.

Task 3: Quality Assurance, Testing, Troubleshooting and Technical Support (Rs. 30,000)

- Conduct quality assurance testing on the web app to ensure that it meets functional and performance requirements.
- Develop test plans and test cases.
- Document and report any issues found during testing.
- Conduct user experience and usability testing on the web app.
- Solicit feedback from users and incorporate it into the design of the web app.
- Develop user surveys and questionnaires to collect feedback on the web app.
- Provide technical support to users of the web app.
- Troubleshoot issues reported by users and work with the development team to resolve them.
- Document and report any issues that cannot be resolved by technical support.
- Any other cognate duties.

Qualifications Required

- Degree in Computer Science, Applied Computing, Software Engineering or any equivalent qualification.

Profile

Candidates must have:

- Very good programming skills
- Experience with web frameworks such as Django and Flask
- Good experience in computer vision and Deep Learning models
- Very good Web development skills
- Good analytical and communication skills

Duration of Contract

Appointment will be offered for a contractual period of a maximum of **2 months**. The tentative starting date will be **Monday 8 May 2023**.

While the recruited candidate(s) will **NOT** be expected to be on site on a daily basis, arrangements should be made to attend weekly meetings with the research team on the University of Mauritius campus.

Further Information and/or Clarification

Any request for further information and/or clarification should be directed to Dr. Oomesh Gukhool via email (o.gukhool@uom.ac.mu) with subject line: "Request for information/clarification on ***InTraMs - Intelligent Traffic Management System*** project".

Mode of Application

Letter of application together with a detailed Curriculum Vitae (C.V) and photocopies of qualifications, birth certificate, marriage certificates (if applicable), testimonials and equivalence of qualifications (where applicable) should reach **the Dean of Faculty of Information, Communication and Digital Technologies (FoICDT), (Attention: Dr O.Gukhool), University of Mauritius, Réduit OR PREFERABLY** by email at o.gukhool@uom.ac.mu and copied to deanfoicdt@uom.ac.mu (Dean, FoICDT), by **1 May 2023**, at latest.

The envelope should be clearly marked ***InTraMs - Intelligent Traffic Management System - Web Development*** on the top right-hand corner, or if your application is sent by email, your email subject should be same as the aforementioned description.

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.