



## VACANCY

The Faculty of Information, Communication & Digital Technologies of the University of Mauritius, in collaboration with the Human Resource Development Council (HRDC), is embarking on a project to develop a vacancy analysing tool that could capture real time vacancies published online. The tool is expected to offer insights into skills required by enterprises, identifying patterns, enhancing understanding of the job market, and grasping the latest trends.

In this context, applications are invited from suitably qualified candidates for the post of **one (1) Research Assistant (Part-Time)**, to work on the project entitled "**Analysis of Online Job Vacancies (OJV)**". The identified tasks and their respective expected duration and remuneration are as follows:

**Task 1 - (Rs90,000/-): Work on the Design and Implementation of the Web Extraction from Job Portals and classify the Information gathered**

*Expected duration: three (3) months*

- To design and implement a fully functional web-service (Cloud-hosted), that would contain 2 sub parts. The first part, for the public in general with filtered/anonymous/processed information. The second part will be dedicated to the administrator/staff of HRDC for more advanced operations;
- Accommodate an extended list of recruiters to the existing ones (about 12), and generate precise reports as per the need of HRDC;
- An analysis tool for classifying trends of jobs/areas/sectors/skills with a prediction algorithm over a reasonable amount of time from O\*NET;
- Report to Investigators on a regular basis;
- Documentation and report writing;
- Any other cognate duties.

**Task 2 - (Rs 90,000): Data Analysis using Machine Learning Tools and train HRDC Staff**

*Expected duration: three (3) months*

- A transparent integration of the O\*NET/ESCO database with our dataset, supported by a scheduled machine learning algorithm for maximising the automation process of categorising jobs into different sectors/skills;
- Generate fine-grained skills analysis (per qualification, occupation group, etc.);
- To train HRDC staff on the system;
- Report to Investigators on a regular basis;
- Write a full documentation for the OJV System;
- Any other cognate duties.

### **Qualifications Required:**

- A Degree in Computer Science or any equivalent qualification.

### **Profile of Candidates:**

Candidates must have:

- Excellent programming skills in Web Technologies: CSS, Javascript, PHP and MySQL.
- Experience in JavaScript frameworks.
- Experience in Machine Learning Algorithms.

### **Duration of Contract**

Appointment will be offered for a contractual period of **six (6) months**. The proposed starting date will be **01 August 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 reach **the Dean of the Faculty of Information, Communication and Digital Technologies (Attention: Mr Aatish Chiniah, co-Principal Investigator), University of Mauritius, Réduit** OR email addresses [a.chiniah@uom.ac.mu](mailto:a.chiniah@uom.ac.mu), [s.pudaruth@uom.ac.mu](mailto:s.pudaruth@uom.ac.mu) and copied to [deanfoicdt@uom.ac.mu](mailto:deanfoicdt@uom.ac.mu) by **Tuesday 18 July 2023 at latest**.

The envelope/email subject should be clearly marked **“Research Assistant for the Project: Analysis of Online Job Vacancies (OJV)”**.

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

**Dean, Faculty of Information, Communication and Digital Technologies**

**Date: Tuesday 04 July 2023**