



VACANCY

The University of Mauritius, in collaboration with the Open University and the Université des Mascareignes, has received funding from the Higher Education Commission (HEC) to develop appropriate tools and software for the translation of Kreol Morisien to English and vice-versa.

In this context, applications are invited from suitably qualified candidates for the post of **two (2) Research Assistants (Part-Time)**, to work on the project entitled “**Morisia 2.0: Translation of Kreol Repiblik Moris to English and English to Kreol Repiblik Moris using Natural Language Processing and Deep Neural Machine Translation Techniques**”. The identified tasks and their respective expected duration and remuneration are as follows:

Task 1 - (Rs 45,000):

Expected duration: 2 months

- Create a dataset of parallel sentences. Each research assistant will be expected to create a dataset of at least 10,000 parallel sentences.
- Train, test and validate a model for translation from Kreol Morisien to English
- Train, test and validate a model for translation from English to Kreol Morisien
- Report to investigators on a regular basis
- Documentation and report writing
- Any other cognate duties

Task 2 - (Rs 45,000):

Expected duration: 2 months

- Develop a web app for the deployment of the model
- Develop a mobile app for the deployment of the model
- Report to investigators on a regular basis
- Documentation and report writing
- Any other cognate duties

Task 3 - (Rs 45,000):

Expected duration: 2 months

- Evaluate the quality of the system via a survey
- Make relevant changes to the model, web app and the mobile app using the feedback received
- Assist in the organisation of workshop(s)
- Write a research paper on this work
- Report to investigators on a regular basis
- Documentation and report writing
- Any other cognate duties

Both Research Assistants will be expected to work together on all the three (3) tasks. Each research assistant will be paid an all-inclusive allowance of Rs 45,000 upon successful completion of each task.

Minimum Qualifications Required:

- Degree in Computer Science or equivalent

Profile of Candidates:

Candidates must have:

- A good knowledge of machine learning and deep learning techniques, including transformer models.
- Excellent programming skills in Web Technologies: CSS, Javascript, PHP and MySQL.
- Experience in JavaScript frameworks.
- Excellent programming skills in mobile applications development.
- Experience in the deployment of AI models via web apps and mobile apps.

Duration of Contract

Appointment will be offered for a contractual period of **six (6) months on a part-time (task-based) mode**. The proposed starting date will be **Monday, 21st November 2022**.

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: Associate Professor (Dr) Sameerchand Pudaruth as *Principal Investigator*)**, University of Mauritius, Réduit OR **PREFERABLY** by email to s.pudaruth@uom.ac.mu and deanfoicdt@uom.ac.mu by **Monday, 31st October 2022, at latest by 2pm**.

The envelope (for the hardcopy) or the email subject (for the softcopy) should be clearly marked "**Morisia 2.0: Translation of Kreol Repiblik Moris to English and English to Kreol Repiblik Moris using Natural Language Processing and Deep Neural Machine Translation Techniques**".

Incomplete applications or those 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.

Dean, Faculty of Information, Communication and Digital Technologies

Date: Friday, 14th October 2022