



JOB ADVERTISEMENT

The University of Rwanda is a public institution of Higher learning committed to support the development of the country through the generation and advancement of knowledge and innovation among other core activities. In this framework, the University through its Single Project Implementation Unit (UR-SPIU) is implementing the Tackling Infections to Benefit Africa (TIBA) Program in collaboration with the Edinburg University based at UK. Under this program we are seeking skilled, experienced and hardworking Research Assistants in the Framework of implementation of TIBA-Out of Africa Project entitled “**Evaluation of mixed malaria infections and developing a responsive surveillance of malaria infections in Rwanda**”. The appointment is for **5** months.

1. Research Assistant in Molecular diagnostics (1)

Specific duties and Responsibilities

- Performing regular experiments as directed by the supervisor and timely communicate results.
- Handling of samples, data entry, and sample management/storage in support of analysis activities.
- Assist Post-doctoral fellows in their day-to-day research activities
- Contributing to regular Lab operations such as:
 - Maintenance of clean and neat work areas,
 - Record dates of receipt and use of all reagents and kits
 - Record existing and new equipment, as well as other assets in the Lab.
- Comply with all safety requirements.
- Perform other duties as directed by leadership

Qualifications:

- A Master’s degree in Biomedical Sciences or related field such as Molecular Biology, Biotechnology, Biochemistry, Microbiology; with background in Biomedical Laboratory Sciences.
- Demonstrated knowledge of, and ability to use standard Molecular Biology Techniques; i.e. Preparation of solutions and buffers, Extraction of nucleic acids, measurement of nucleic acids concentration, PCR and running agarose gel electrophoresis.
- Laboratory experience handling blood samples is highly desired.
- Ability to follow laboratory work instructions and SOPs.
- Meticulous attention to details and maintains up to date laboratory notebooks.





- Proficiency with Microsoft Office.
- Ability to work independently and demonstrated team spirit
- Demonstrated strong English communication and writing skills.
- Effective planning, organization and time management skills

2. Research Assistant in Real time Surveillance (1)

Specific duties and Responsibilities

- To design a platform for Malaria surveillance based on Rapid SMS and Django and Python
- Maintaining production and development servers of the Project
- Developing, documenting, and testing new code additions and committing them to Github following the priorities established in the weekly meetings.
- Creating and updating code documentation (docstrings, comments, readmes, etc), project documentation (wiki pages, tutorials, etc), and training materials (user guides, admin guides, etc).
- Assist Post-doctoral fellows in their day-to-day research activities and Providing weekly progress reports on all activity
- Perform other duties as directed by leadership

Qualification and Technical Skills

- B.S. or higher in Computer Science, Engineering or equivalent;
- Heavy data focus – prior academic experience with Machine Learning, AI, or Big Data
- Development experience with command of at least one modern programming language and expertise working with mainstream scripting languages (e.g. Python, R, Java, C++, etc.)
- Hands-on algorithm design, development and experiment skills in machine learning, data mining, data analytics, etc.
- Creative problem-solving skills
- High energy, a passion for machine learning, data analytics and ability to work in a highly collaborative innovative environment

It is required that the developer knows at least one object oriented back-end programming language; Python would be best. It would be desirable if the individual had expert knowledge or intense interest in one of these areas:

- Mobile and Telephony [SMS gateways, IVR and PBX systems (Asterisk)]
- Mobile Health
- Mobile Learning



- Developing for the developing world
- Open source development within the OS community

It would be advantageous if the individual had expertise in two or more of the following areas:

- Django or extensive experience with a framework such as (Cheetah, Camping, Rails)
- Lightweight apps for interacting with photos, video and audio.
- Mapping (Google Maps API/ Openlayers)
- Source code management / Version control systems (Git)

Programming Languages

- Python or similar OO scripting language (Ruby)
- Javascript
- mySQL (postgres)
- XHTML and CSS
- XML

Platforms

- Linux
- Apache

Application procedures

Interested and qualified candidates should submit their applications online to the infospiu@ur.ac.rw with copy to urspiucoor@gmail.com, with mention of **job title** in e-mail subject. The application file must be a **single PDF** file and contain the following documents:

1. Application letter in English addressed to the UR-SPIU Coordinator
2. A detailed Curriculum Vital
3. A copy of academic degree
4. A copy of ID or passport

The deadline for submission of application is 12th May 2019. Only shortlisted candidates will be required to sit for written test.

Done at Kigali on 29th April, 2019


Immaculate BUGINGO

Coordinator, Single Project Implementation Unit (SPIU)
University of Rwanda

