



Eastern Africa Network for Bioinformatics Training

Eastern Africa Network of Bioinformatics Training (EANBIT)

Residential Training Course 2019

The Eastern Africa Network for Bioinformatics Training (EANBIT) will conduct an intensive 6-week bioinformatics residential course to be hosted by the International Centre of Insect Physiology and Ecology, *icipe* in Nairobi, Kenya and Pwani University, Kilifi, Kenya from **01st July - 09th August 2019**.

This training aims at strengthening bioinformatics technical capacity and skills among the participants; preparing them to work as bioinformaticians and to become project ready so that they have the necessary skills to offer bioinformatics support in projects they are attached to.

Applications are invited from individuals in East Africa from universities and research institutions who require advanced skills in Bioinformatics to support their research and training work. A total of 10 successful applicants will be selected based on evidence of productive research, interest in the field and the relevance of skills gained to their current work.

Key topics to be covered include:

- Version control and collaborative development (Git & Github & Slack etc.)
- Advanced Scripting
- Biological databases and API
- Gene models and annotation
- Reproducibility and package management: workflow languages (CWL, Snakemake, Conda)
- Specialized databases (VectorBase, EupathDB) and APIs
- Phylogenomics (Visualization and Annotation)

Hosted by the International Centre of insect Physiology and Ecology



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- Metagenomics (16S and Whole genome shotgun sequencing)
- Machine Learning and modeling for big data (fuzzy strings, HMM)

Applicant Eligibility and Requirements

- Applicants should be attached to universities or research institutions and have basic familiarity with computing/ programming and/ or basic biological concepts.
- Postgraduate students or junior scientists in Kenya, Tanzania and Uganda, with high likelihood of applying the knowledge and tools gained in their current positions.
- Participants will be expected to physically attend and complete the entire program for the full six weeks; 01st July -09th August 2019.
- Applicants must be proficient in both written and spoken English.

Women researchers are particularly encouraged to apply.

Cost of travel and accommodation for accepted participants will be met by the project.

Application Timelines and Process

- Call release: 07th May 2019.
- Application deadline: complete online application form must be submitted by 19th May 2019.
- Late and incomplete applications will not be considered.
- Communication to successful applicants: by 03rd June 2019.

Training Approach

The course will entail participation in a series of lectures, extensive hands-on practical sessions, assignments, group mini-projects, seminar presentations and soft skills training as assigned by an international panel of trainers.

How to Apply

Applications are to be made by following this link <https://forms.gle/22ZSPesypiXkJYPG9> and completing the form. The deadline for submission of applications is **19th May 2019**.

About Eastern Africa Network for Bioinformatics Training (EANBiT)

The Eastern Africa Network for Bioinformatics Training (EANBiT) is a network of three universities and four research institutes in Kenya, Tanzania and Uganda. It was established to develop a critical mass of practitioners in this region who can develop and utilize Bioinformatics approaches to Biosciences. EANBiT is supported by the Fogarty International Center of the National Institutes of Health under Award Number U2RTW010677, with supplementary co-funding from the Initiative to Develop African Research Leaders (IDeAL) and support from institutional partners in the network.