



DELGEME Plus

Master of Science in Antimicrobial Resistance Call for Applications

Background

The Developing Excellence in Leadership and Genomics Training for Malaria Elimination and AntiMicrobial Resistance control in Africa (DELGEME Plus) at the University of Sciences, Techniques and Technologies of Bamako (USTTB) is a training programme of the Science for Africa Foundation (SFA) being implemented with support from Wellcome and the UK Foreign Commonwealth and Development Office (FCDO). The Programme is led by the University of Science Techniques and Technologies of Bamako, Mali (USTTB). Partner institutions are The Medical Research Council Unit The Gambia at the London School of Hygiene & Tropical Medicine; University of Ibadan, Nigeria; The Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana; Stellenbosch University, South Africa, The Kenya Medical Research Institute and Université des Sciences de la Santé of Libreville (USS), Gabon.

DELGEME Plus is offering a 2-year **Master of Science (MSc)** in Antimicrobial Resistance (AMR) at the University of Sciences, Techniques and Technologies of Bamako, Mali, beginning in early 2025.

Objectives

The programme will train African candidates who have interest in one or more of the following themes:

1. To resolve transmission dynamics of malaria, HIV, TB, fungi, and priority resistant bacteria to inform public health policies and elimination strategies
2. To investigate the contribution of antimicrobial stewardship, infection prevention and control, host, and environmental factors to AMR in the context of sub-Saharan Africa
3. To use genomics, transcriptomics, proteomics, metabolomics and bioinformatics tools for the discovery of novel diagnostics, drugs, and vaccines candidates against the target infectious pathogens

4. To apply informatics, modelling, and machine learning to predict the dynamics of resistance of malaria parasites, HIV, TB, and enteric bacteria to drugs in time, space and between species where applicable (Humans, domestic animals, livestock)

5. To engage communities, health practitioners and policy makers to effectively mitigate AMR in Africa.

Who can apply?

- Candidates with MD, PharmD, bachelor's degree in biology, Biochemistry, Bioinformatics, Bioethics, B. Pharmacy, or any equivalent academic discipline associated with Biological Sciences or Public Health Sciences are eligible to apply.
- Only candidates who are nationals of one of the PDNA member countries¹ or about to return to one of the PDNA member countries after completing studies abroad are eligible to apply.
- Candidates must be fluent in written and spoken English

¹ Pathogens genomic Diversity Network Africa, PDNA (www.pathogens-dna.org; Angola, Cameroon, Côte d'Ivoire, Capo Verde, Ethiopia, Gabon, Ghana, The Gambia, Kenya, Nigeria, Madagascar, Mali, Mozambique, DR Congo, South Africa and Tanzania)

- Candidates must receive a support letter from one of the PDNA Principal Investigators² or from one of the DELGEME Plus co-applicants³

Financial framework

Each fellowship will be fully funded by DELGEME Plus. The package includes student's stipend, limited research cost, travel, and other training related costs. The final amount awarded will be determined at the time of award notification.

All successful applicants will be registered at the USTTB, Bamako, Mali and reside in Mali for their course work.

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³ Iruka N. Okeke (ghrurecruitment@gmail.com) University of Ibadan; Sam Kariuki (projectpositions@kemri.go.ke), KEMRI, Kenya; Grant Theron (gtheron@sun.ac.za), Stellenbosch University

Application procedures

Candidates must submit the following documents *as a single PDF* file by email to: delgemecalls@delgeme.org; daoule@icermali.org .

1. A completed application form (available at <https://www.delgeme.org>)
2. Curriculum Vitae (CV)
3. Personal statement (Maximum 2 pages) that outlines the candidate's motivation for pursuing the course, specific interests in the area of antimicrobial resistance and intended career trajectory beyond the MSc level.
4. A letter of support from applicants' institution/ academic supervisor
5. Support letter from one of the PDNA Principal Investigators or from one of the DELGEME Plus co-applicants.
6. A certified copy of full academic transcript (s) and certificate (s).
7. A copy of at least 12-months valid National ID/passport (PDNA member countries)

Complete applications must be received by September 30th, 2024. Incomplete applications will be rejected.

We encourage women and others underrepresented in the academy to apply.

The selection committee reserves the right to make a final decision about suitable candidates, taking the above criteria into account.

Only successful applicants will receive an email confirmation.

Contact:

For further information please contact:

Mrs. Daoule DIALLO SISSOKO

DELGEME Plus

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