



MASTER OF SCIENCE ANTIMICROBIAL RESISTANCE (2 years)



CONTACT INFORMATION

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DELGEME PLUS SECRETARIAT

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ACADEMIC PROGRAM

Semester 1

- Cellular and Molecular Biology
- Epidemiology of Infectious Diseases
- Public Health Aspects of AMR “One World, One Health and AMR”
- Antimicrobial Drug Targets and Mechanisms of Resistance

Semester 2

- Identification of AMR for Laboratory Diagnostics
- Genetic and Genomic Aspects of Antimicrobial Resistance
- AMR and the Microbiome
- Biostatistics
- Molecular Epidemiology and Phylogeny
- Bioinformatics I

Semester 3

- Bioinformatics II
- Ethics and Genomics
- Scientific Writing and Communication
- Research Methodology

Semester 4

- Research Project / Thesis

MAIN LECTURERS IN THE MASTER’S PROGRAM

- Faculty from the Faculty of Pharmacy (FAPH), Faculty of Medicine and Dentistry (FMOS) and Faculty of Science and Technology (FST) of USTTB.
- Lecturers from partner institutions: The Medical Research Council Unit the Gambia at the London School of Hygiene & Tropical Medicine (MRCG); University of Ibadan, Nigeria; Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana; University of Stellenbosch, South Africa; Kenya Medical Research Institute and University des Sciences de la Santé de Libreville (USS), Gabon.

SKILLS EXPECTED AFTER THE MASTER’S PROGRAM

This Master’s program aims to train students with specialized skills in:

- Epidemiology of antimicrobial resistance.
- Surveillance systems related to antimicrobial resistance in healthcare, agriculture, livestock and the environment.
- Adaptation and improvement of molecular biology techniques for AMR detection and monitoring.
- Description of known mechanisms and discovery of new mechanisms of pathogen resistance to antimicrobials and modes of transmission.
- Study of the genetics and genomics of antimicrobial resistance.
- Research and development of new medicines and vaccines against infections.
- Ethics and good research practices in AMR studies and control.

WHO CAN APPLY?

- Holders of a Bachelor’s degree in Health Sciences or equivalent (Science and Technology major), Master’s degree, or Medical/Pharmacy Doctorate.
- Holders of a Medical Laboratory Technologist degree (recognized by ECOWAS countries).
- Students in Medicine, Pharmacy, Dentistry, or Veterinary Medicine who have completed Semester 8 (4th year).
- Holders of a professional Doctorate in Medicine, Pharmacy, or Animal Health.
- Candidates proficient in English (reading and writing), as all courses are taught in English.

APPLICATION PACKAGE

Applicants must submit the following documents by email in one PDF file:

1. A completed application form (available at www.delgeme.org)
2. A Curriculum Vitae (CV)
3. A Motivation Letter (max. 2 pages) describing the candidate’s aspirations, specific interests in AMR and plans for applying the knowledge gained at MSc level
4. Two reference letters from the candidate’s institution or academic supervisor
5. A certified copy of transcripts and/or certificates
6. A copy of a valid ID card or passport

APPLICATION DEADLINE

- Complete applications must be received by July 31, 2026. Late submissions will not be considered.
- Female candidates and underrepresented groups are strongly encouraged to apply.
- The selection committee reserves the right to make final decisions based on the criteria above.
- Only selected candidates will receive confirmation by email.
- Applications can also be submitted electronically to: delgemecalls@delgeme.org

TUITION FEES (PER YEAR)

The Master’s enrollment is annual and must be renewed at the beginning of each academic year.

Annual tuition and registration fees:

- For students from ECOWAS countries: 850,000 FCFA total including 250,000 FCFA for registration and 600,000 FCFA for tuition.

Note: English proficiency is mandatory, as all courses are taught in English.

Next intake: September 30, 2026