

What is GREEN-STEM?

Vision

Being at the forefront of African Universities leadership to empower a Sustainable and Green development and tackle the Climate Change challenges

Mission

GREEN-STEM aims to develop a Higher Education Research and Innovation (HERI)space at the African continent scale to multiply national capacities. The program grantees will constitute a pool of international and multi-cultural young talents who will serve societal needs and tackle its challenges.



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GREEN-STEM

Green, REsilient, and
ENTrepreneurial Science,
Technology, Engineering and
Mathematics for Africa



DISCLAIMER

“Funded by the European Union. Views and opinions Expressed are however those of the authors (s) only and do not necessarily reflect those of the European Union or Intra Africa Mobility. Neither the European Union nor the granting authority can be held responsible for them”

➤ Background

The GREEN-STEM project is a cross-regional mobility cooperation by a consortium made of University of Nairobi (Kenya), University of Lagos (Nigeria), University of Rwanda (Rwanda), University of the Witwatersrand (South Africa) and, in Europe, Paris Sciences et Lettres University (France). It addresses the serious challenges faced by most African countries such as:

- Low development
- Under-capacity and inadequate Higher Education system
- Youth unemployment
- Sensitivity of their carbonized economies

➤ Objectives

Overarching objective

- To contribute to a green, resilient, and sustainable development of Africa and its countries by implementing intra-Africa academic mobility opportunities in Science, Technology, Engineering, and Mathematics, necessary to share good practices and to build capacities in Higher Education, Research, and Innovation (HERI).

Specific Objectives

- To generate and sustain an African cross-enriched community of universities & stakeholders in the capacity to join forces to tackle global challenges, particularly Climate Change and its impacts.
- To contribute to building an African HERI space of quality, internationally attractive, where mutual recognition,

cooperation and joint programs take place.

- To consolidate a proactive, assertive, and entrepreneurial momentum in Africa to energize the HERI community and to prepare African countries for the future, especially in the context of their societal and environmental challenges.
- Develop the employability and relevance of the university graduates, especially by training their transversal competencies and digital literacy.
- Generate green jobs by technology transfer from labs to market and by an entrepreneurial and innovation-based education of students and staff.
- Offer an affordable and inclusive higher education, especially for women, vulnerable, and special needs populations.



➤ Participating Institutions

All participating institutions are members of the African Engineering and Technology Network (Afiretec) and African Research Universities Alliance (ARUA)

Coordinating Institution:

The University of Nairobi, **Kenya**

African Partners:

- University of Rwanda, **Rwanda**
- University of Lagos, **Nigeria**
- University of Witwatersrand, **South Africa**

European Partner:

University of Paris Science et Lettres, **France**

Associated partners:

- Afiretec network
- Bureau Veritas, Elgon Kenya, Olvea

➤ Expected Impact

- New capacities and practices will empower up to 90 young talents, students and staff to imagine and implement solutions to tackle societal and environmental challenges, consequent to Climate Change, with an entrepreneurial and innovative approach.
- GREEN-STEM will multiply its effects thanks to its peer networks, such as the AFRETEC and ARUA in Africa, the future links with European network(s), and European University Alliance(s).

GREEN-STEM First Call Spring 2024 Full Master & PhD Programs

The University of Nairobi

Full master programs

[Climate Change Adaptation](#)

[Environmental Chemistry](#)

[Industrial Chemistry](#)

[Mathematics](#)

[Computer Science](#)

[Environment & Bio systems Engineering Electrical and Electronic Engineering](#)

[Entrepreneurship and innovation](#)

[Supply chain management](#)

Full PhD programs

[Climate Change Adaptation](#)

[Mechanical Engineering](#)

The University of Rwanda

Full Masters Programs

[Master of Communication Management \(eMCM\)](#)

[Master's Programme in Software Engineering](#)

[MSc in Information and Communication Technologies \(operational communications\)](#)

[MSc in Information Systems \(Option: E-governance \)](#)

[MSc in Biodiversity Conservation and Natural resources Management](#)

[MSc in Environmental Chemistry](#)

[MSc in Applied Mathematics](#)

[MSc in Atmospheric and Climate Sciences](#)

[MSc in Energy Economics](#)

[MSc in Renewable energy](#)

[MSc in Electrical Power Systems](#)

[MSc in IoT: Wireless Intelligent Sensor](#)

[Networking \(MSc in IoT: WISeNet\)](#)

[MSc in Internet of Things: Embedded Computing Systems \(MSc in IoT: ECS\)](#)

[MSc in Geo-Information Science for Environment & Sustainable Development](#)

[Master of Science in Water resources and Environmental Management](#)

[Master of Science in Highway Engineering and Management](#)

[Master of Science in Transportation Engineering and Economics](#)

[MSc in Information Systems \(Option: Internet Technologies\)](#)

Full PhD Programs

[Ph.D. in Physics by research and dissertation/thesis](#)

[PhD in Mathematics \(Pure Mathematics, Applied Mathematics, & Statistics\)](#)

[PhD in Physics](#)

[PhD in Chemistry: \(Organic Chemistry, Environmental Chemistry, Physical Chemistry, Inorganic Chemistry\)](#)

[PhD in Biology: \(Biotechnology, Microbiology, Biochemistry\)](#)

[PhD by research in ICT \(Option in Computer Science\)](#)

[PhD in Energy Economics](#)

[PhD in Electrical Power Systems](#)

[PhD in Renewable Energy](#)

[PhD in IoT with Specialization in Embedded Computing Systems](#)

[PhD in IoT with Specialization in Wireless Intelligent Sensor Networking](#)

[PhD in Water Resource Engineering](#)

[PhD in Highway Engineering](#)

[PhD in environmental engineering](#)

[PhD by research in ICT \(Option in Software Engineering\)](#)

University of Lagos

Full master programs

[Information Technology](#)

[Urban Management](#)

Full PhD programs

[Geo-information and climate change adaptation](#)

University of Witwatersrand

Full Masters programs

[Interdisciplinary Global Change Studies](#)

[Geography, Archaeology and Environmental Studies](#)

[Geography, Archaeology and Environmental Studies](#)

[Geography, Archaeology and Environmental Studies](#)

[Civil and Environmental Engineering \(MEng\)](#)

[Civil and Environmental Engineering \(MSc\)](#)

[Architecture and Planning](#)

[Environmental Law](#)

Full PhD Programs

[Geography, Archaeology and Environmental Studies](#)

[Animal Plant and Environmental Sciences](#)

[Computer Science and Applied Mathematics](#)

OPEN NOW

FIRST CALL FOR APPLICATIONS

FULL DEGREE SCHOLARSHIPS

➤ 22 months in an eligible **Master's degree program**

Monthly allowance: 890€

Visa and insurance contribution: 200€

Travel costs are at the grantee's expenses

Tuition fees are waived for the grantees

➤ 36 months in an eligible **Doctoral Degree program**

Monthly allowance: 1230€

Visa and insurance contribution: 200€

Travel costs are at the grantee's expenses

Tuition fees are waived for the grantees

➤ Eligibility

a. Candidates **MUST** be registered/admitted in or have obtained a degree (or equivalent) from one of the GREEN-STEM African universities or one of the [AFRETEC universities](#).

This call is only open to Women

b. **People with disability are welcome** and will be specifically helped during their mobility

➤ Application Process

a. Only excellent profiles will be selected

b. The list of eligible programs in all the partner universities for Masters and Ph.D. can be found on the GREEN-STEM website

c. The scholarship application form can also be found on the website. It should be downloaded, filled, submitted in PDF with copies of all the other required documents, sent to the partner universities email addresses (see contact information), and copy: advancement@uonbi.ac.ke

d. Applications for the Master's programs open on April 15, 2024, and close at the latest JUNE 15, 2024, 5:00 pm (EAT)

e. Applications for PhD programs open on April 12, 2024

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