



AIMS

African Institute for
Mathematical Sciences
NEXT EINSTEIN INITIATIVE

WE ARE CONTRIBUTING TO AFRICA'S SOCIO-ECONOMIC TRANSFORMATION THROUGH:



Innovative
scientific training

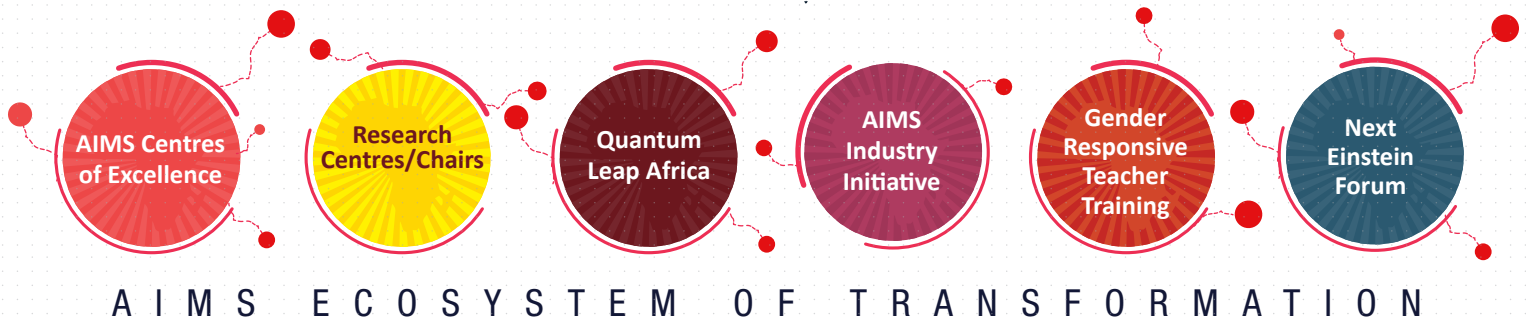


Technical advances
& discoveries



Public engagement for the
continent's scientific
emergence

HOW ARE WE DOING THIS?



PROFILE OF AIMS ALUMNI



OVER
2200
ALUMNI
FROM 43 COUNTRIES SINCE 2003

OVER
70%

OF OUR ALUMNI REMAIN
ON THE CONTINENT



FIVE FACTS ABOUT AIMS CAMEROON



**4TH CENTRE,
CREATED IN 2013**

305 STUDENTS GRADUATED,
37 (43% WOMEN) ADMITTED IN 2020



**FULL SCHOLARSHIPS FOR
QUALIFIED STUDENTS**



HOSTED
OVER 135
RENOWNED PROFESSORS
FROM OVER 24 COUNTRIES



FIRST CENTRE TO PILOT THE
TEACHER TRAINING PROGRAM
LAUNCHED IN 2016

In Partnership with





AIMS

African Institute for
Mathematical Sciences
CAMEROON

A GLANCE AT AIMS CAMEROON PROGRAMS



MSc in Mathematical Sciences

AIMS offers an intensive structured Master's degree in mathematical sciences entailing 10 months of course work, research and the oral defence. The program provides a strong grounding in end-to-end skills, from problem formulation, estimation, prioritization, and generally applicable mathematical and computing methods in big data and computer security, to clear and concise scientific report writing. The aim is to equip students with the necessary tools and confidence for policy analysis and decision making. All AIMS students benefit from full scholarships, are selected through a rigorous application process and must have studied mathematics or related sciences for at least four years (4-year BSc or Master's I).



Teacher Training Program

Launched in partnership with the Mastercard Foundation and the Government of Cameroon, the AIMS Teacher Training Program was developed to improve learning outcomes in mathematics for secondary school students. Through professional development, training workshops, highquality classroom resources and technology-driven Smart Classrooms, TTP is empowering teachers to improve their pedagogy and increase the transition to tertiary STEM education. The program has rolled out three four-in-one laboratories with state-of-the-art features, launched an E-learning platform and a Community of Practice, and trained 1024 teachers and 671 student teachers, impacting all 10 regions in Cameroon.



Co-operative Education Program

Culminating in the AIMS Master's in mathematical sciences, this Work-Integrated Learning program spans through 18 months: 10 months of course work, six months of internship with appropriate industry and the oral defence. Building on the core Master's program described above, the Co-op program allows students to apply their scientific knowledge to real-world problems. This program targets students with a background in mathematics or related sciences, strong leadership skills, with an engagement to invest in their communities. The fully-funded Co-op program is implemented with the support of the Mastercard Foundation, Global Affairs Canada and private sector partners.



Research Centre

Previously led by Prof. Gisele Mophou and presently under the care of Dr. Jean-Daniel Djida, the Research Centre is supported by the Alexander von Humboldt Foundation and the German Federal Ministry of Education and Research (BMBF). Through national and international collaborations, research stays and exchange visits, the Research Centre is promoting scientific work in the fields of Partial Differential Equations, Fractional Partial differential equations and control theory, which are explored to model environmental and health problems.

ALUMNI SPOTLIGHT



Dr. Nkongho Ayuketang A
(AIMS Cameroon, 2013/14) – **Cameroon**

Ayuketang, member of the pioneer cohort at AIMS Cameroon, went on to pursue a PhD in physics, specializing in renewable energy at the Department of Physics, University of Buea. He is currently a teaching assistant at Polytechnic, Saint Jerome Catholic University of Douala, Cameroon. His research interests include energy transition, energy resources assessment and modelling, wind energy and wind farms modelling, sustainability, energy policies, and economics.



Maryse Manuella M.
(AIMS Cameroon, 2017/18) – **Cameroon**

Prior to joining AIMS, Maryse studied pure mathematics (algebra-Analysis-geometry) at the University of Douala, where she graduated with a Bachelor's and Master's I. After an intense 10 months of training, she proudly completed her studies at AIMS Cameroon with distinction. Maryse is now part of the Research Centre, working on her research in control theory under the supervision of the German Research Chair of Mathematics and its Applications.



Ebude Antem Yolande E
(AIMS Cameroon, 2017/18) – **Cameroon**

With a Master's in electrical engineering from École Nationale Supérieure Polytechnic, Yaoundé, Ebude's passion for analytical approach indulged her into studying industrial mathematics at AIMS Cameroon. While at AIMS, she gleaned a spot for the UNLEASH Lab 2018 in Singapore, a program organized by UNDP, equally participating in the Deep Learning Indaba 2018 at Stellenbosch University. Ebude is now pursuing a Professional Doctorate in engineering (data science) at Eindhoven University of Technology, Netherlands.



Sylvain Wagoum Nodem
(AIMS Cameroon, 2017/18) – **Cameroon**

After graduating from the National Advanced School of Engineering, Sylvain gained admission into AIMS for a Master's in industrial mathematics, under the Co-op program. Currently working as Tutor and IT Assistant at AIMS Cameroon, Sylvain aims to develop his professional experience in management and decision-making. To achieve this, he is currently gaining more experience in IT management and training himself in the field of artificial intelligence.

