Admissions, Programme Duration & How to Apply

Entry Requirements

- A Bachelor's degree from an accredited institution (Minimum Second Class Upper or equivalent)
- Second Class Lower applicants with relevant post-university work experience may be considered
- Preference for applicants with backgrounds in Engineering, Computer Science, Robotics, AI, or related disciplines
- Applicants from other disciplines may be considered on a case-by-case basis

Programme Duration

- **Full-time: 2 Years**
- Research-intensive programme
- Includes **thesis, seminars,** and **advanced research work**



Fuel Your Ambition
Apply Now

#AskΛCity

Academic City University – Ghana Campus
Accra, Ghana
+233 26 269 3870 | +233 54 824 3844
admissions@acity.edu.gh

Nigeria Admissions Office – Lagos
2EB, Opp. Aswani Market, Osolo Way,
Aswani-Oshodi Industrial Scheme,
Isolo, Lagos, Nigeria
+234 805 033 0267
admissions.nigeria@acity.edu.gh

www.acity.edu.gh @acitygh

MPhil Robotics Engineering

Advance Research. Drive Innovation



About the Programme & What Makes It Unique

About the Programme

Academic City's MPhil Robotics Engineering programme is a research-intensive postgraduate degree designed to develop advanced expertise in robotics, automation, AI, and intelligent systems.

Students conduct original research, develop advanced technical competencies, and contribute innovative solutions to industrial and societal challenges through robotics technologies.

What Makes It Unique:

- **Research-Driven Learning:** Conduct advanced research in robotics, AI, automation, and intelligent systems.
- **Advanced Robotics & AI:** Explore cutting-edge technologies shaping the future of autonomous systems.
- **Cross-Disciplinary Engineering:** Combine robotics, AI, embedded systems, computer engineering, and automation.
- **Innovation & Commercialisation:** Develop robotics prototypes and scalable engineering solutions.
- **Practical & Experimental Training:** Work with simulations, robotics labs, sensors, and real-world engineering platforms.
- **Pathway to PhD & R&D:** Prepare for doctoral studies, innovation labs, and advanced research careers.

Curriculum Overview

Year 1 – Semester 1

- Foundations of Robotics
- Robot Autonomy
- Robot Mechanics & Kinematics
- Sensors & Perception Systems
- Research Methods

Year 1 – Semester 2

- Robot Dynamics & Control
- Machine Learning
- AI for Robotics
- Computer Vision

Year 2

- Thesis Seminars & Proposal
- Research & Conference Presentation

Electives

- Deep Learning
- Mechatronics for Robotics
- Advanced Robotics Applications
- Rehabilitation Robotics

Key Pathways

- **Robotics Research Scientist:** Conduct advanced robotics and intelligent systems research.
- **AI & Autonomous Systems Researcher:** Develop intelligent algorithms and autonomous technologies.
- **Automation & Control Specialist:** Design advanced industrial automation systems.
- **Robotics Innovation Engineer:** Develop robotics prototypes and emerging technologies.
- **Academic & STEM Research Leader:** Contribute to robotics education, research, and innovation.
- **Robotics Entrepreneur:** Build scalable robotics and automation ventures.

Top Industries

- Robotics Research & Development
- Industrial Automation
- Artificial Intelligence & Autonomous Systems
- Healthcare Technology
- Smart Manufacturing
- Smart Infrastructure & IoT
- Research Institutes & Academia

