Why UMBC?

A Globally Respected Research University

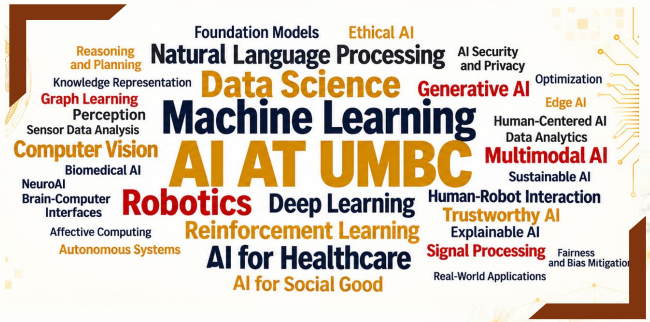
US News and World Report Best Colleges

- Carnegie Research 1 (R1) Institute (high/very high research activity)
- Ranked 14 in Most Innovative Schools
- Ranked 15 for Best Undergraduate Teaching
- Ranked 74 in Public Universities
- Ranked 144 in National Universities
- Ranked 10 in NASA Research Funding Recipients (NASA HERD, 2024)

Why International Students Choose UMBC?

Competitive cost with high Return on Investment

- Centrally located - Just hours from Washington, D.C., Philadelphia, New York City, New Jersey, Virginia, Delaware
- 92% of students are employed or pursuing further study within 6 months of graduation
- Top employers include Amazon, Apple, Cisco, Deloitte, Intel, Microsoft, MITRE, Walmart with an average starting salary of $85-95K
- International student support services offers:
  1) Prepare for student visa interview
  2) Maintain your visa status



Program Overview

A rigorous and flexible program built for future AI innovators

- **33 Credits**
  Flexible curriculum
- **2 Pathways**
  Thesis or Non-Thesis
- **Core AI Foundation**
  Artificial Intelligence + Machine Learning
- **Specialize Your Degree**
  NLP • Computer Vision • Robotics • Neural Networks • Trustworthy AI • Data Privacy • Knowledge Representation & Reasoning
- **Research Opportunities**
  Work with faculty on cutting-edge AI research and real-world applications
- **Fall & Spring Admission**
  GRE not required • 3.0 GPA desired • Two recommendation letters • Statement of Purpose
- **Career Ready**
  AI/ML Engineer • Data Scientist • Research Scientist • Computer Vision Engineer • AI Product Manager

Graduate Assistantships include funding support and additional responsibilities such as teaching, research or grading.

UMBC

MS in AI

A globally recognized MS program in AI embedding Robotics, ML, Natural Language Processing, Signal Processing, Cybersecurity, Quantum Computing, Communications and Photonics, Hardware Systems, Cyber Physical Systems, Networks, Graphics and Visualization, Data Science and Software Innovation

INNOVATE · TRANSFORM · SUCCEED

The UMBC CSEE Advantage

Largest & Most Prestigious Program at UMBC

- CSEE maintains strong industry partnerships including tech startups in UMBC's Research and Technology Park, the bwtech@UMBC.
- CSEE alumni are employed by prestigious technology innovators.
- 16 of our faculty received the NSF CAREER Award, " NSF's most prestigious award in support of early-career faculty." 30% of all UMBC NSF CAREER awardees are from our department.
- 8 of our faculty are on the 2023 Stanford's List of World's Top 2% Scientists
- 10 of our faculty members are fellows of professional organizations such as the IEEE, ACM, SIAM, SPIE, with a cumulative total of 27 such recognitions.
- For over 20 years, UMBC has been a National Center of Academic Excellence in Cyber Defense Education and Research based on our undergraduate and graduate computer science programs with tracks and research in cybersecurity.

Research Centers

Federal & Institute Funded Research Centers

These centers attract top national and international students at every level to advance state-of-the-art research in AI, robotics, cybersecurity, and other active and emerging technologies.

- UMBC Center for Artificial Intelligence
- UCYBR – UMBC Center for Cybersecurity
- CARTA: Center for Accelerated Real Time Analytics
- CREM: Center for Research in Emergent Technology
- BRAIN: Building Reliable Advances and Innovations in Neurotechnology
- CENTAUR: Center for Navigation, Timing & Frequency Research
- iHARP: AI & Climate Science
- CARDS: Robotics and Autonomy

Why AI at UMBC?

Where AI Research meets Real-world Impact

- Four Decades of AI Leadership — UMBC has been advancing artificial intelligence research and development since the mid-1980s, with the interdisciplinary UMBC Center for AI building on this long-standing foundation.
- 50+ Faculty Engaged in AI Research — A broad, interdisciplinary community works across machine learning, trustworthy AI, causal inference, robotics, computer vision, NLP, cybersecurity, autonomy, and intelligent systems.
- A Powerful Ecosystem of Research Centers — AI intersects with nationally significant UMBC centers in cybersecurity, real-time analytics, robotics & autonomy, cyber-physical systems, big data, health analytics, and climate science.
- From Foundations to Frontier AI — Build strong foundations in AI and machine learning, then specialize through areas such as computer vision, NLP, neural networks, and robotics.
- Learn AI by Doing AI — Opportunities extend beyond coursework to faculty-mentored thesis research, research assistantships, capstone projects, active AI laboratories, and real-world problem solving.
- Interdisciplinary AI with Real-World Impact — UMBC's AI ecosystem connects computing with real-world applications preparing students to translate AI innovation into societal impact.