Inclusive Excellence

FAST FACTS
• The Carnegie Foundation classifies UMBC as a Doctoral University with Higher Research Activity
• Extramural Research Awards in FY 2018 – $86 Million
• Research Expenditures in FY 2018 – $76 Million
• Full-time Faculty – 546 plus 292 Part-time Faculty
• Student Enrollment in Fall 2017 – 13,767 (including 2,507 graduate students)
• Average Freshman GPA – 3.86
• 61 Majors, 41 Minors and 31 Certificate Programs
• 24 Ph.D. Programs, 40 Masters Programs and 22 Graduate Certificates

COLLABORATIVE RESEARCH CULTURE
• Vibrant, interdisciplinary, and collaborative, with a national reputation for integrating undergraduates in mentored research
• Well aligned with regional and national priorities – Environment, Health, National Security, and Education
• Our most successful and impactful research efforts are often based on collaborations – across the campus, with other academic institutions, and with external partners

ECONOMIC DEVELOPMENT
• UMBC’s Research & Technology Park – bwtech@UMBC – is home to three startups named 2017 Maryland Incubator Company of the Year, spans 525,000 square feet, houses over 130 tenants providing over 1,600 jobs, and operates two incubators – for cybersecurity and for technology & life sciences
• UMBC’s Express License Agreement reduces the burden for faculty to start a company
• UMBC’s Technology Catalyst Fund provides early-stage support to advance innovations from faculty research
• UMBC faculty are highly successful contributors to TEDCO’s Maryland Innovation Initiative (MII) – over 30 projects awarded and 8 companies founded since 2012

Innovation That Matters

UMBC
research.umbc.edu

Interdisciplinary Life Sciences Building to open in 2019

Todd Pittman, physics, and his team study quantum information and nonlinear optics

Chemistry and Mechanical Engineering faculty team up to heat nanoparticles to shrink tumors in interdisciplinary research project

National “Humanities for All” initiative features innovative work by UMBC Scholars, including “Baltimore Traces” project.

Research infrastructure supports life sciences research & education

Yelena Yesha leads NSF Center for Accelerated Real Time Analytics

National “Humanities for All” initiative features innovative work by UMBC Scholars, including “Baltimore Traces” project.
NATIONAL RECOGNITION


COMMUNITY ENGAGEMENT

- UMBC is located just 15 minutes from Baltimore’s Inner Harbor and 30 minutes from Washington, D.C.
- UMBC is a dynamic public research university integrating teaching, research, and service to benefit the citizens of Maryland.
- UMBC emphasizes science, engineering, information technology, human services, and public policy at the graduate level.
- Lion Brothers Building, adjacent to UMB, serves as UMBC’s city classroom for the Discover Baltimore program series.

KEY RESEARCH THEMES

Computer Information Sciences & Engineering
- Cybersecurity and AI
- Health IT
- Cognitive Computing
- Big Data Analytics

Environmental Sciences & Engineering
- Atmospheric Physics & Remote Sensing
- Ecology & Remediation
- Earth & Space Sciences

Life Sciences & Biotechnology
- Bio Sciences & Engineering
- Marine Biotechnology
- Policy Studies

Social Sciences
- Health Equity
- Intercultural Communication

Arts & Humanities
- Public Humanities & Arts
- Public Humanities & Arts

HONORS & AWARDS

National and International Recognition
- UMBC Faculty have received 35 NSF CAREER Awards since 1995 – including Dr. Nirmalya Roy in Information Systems in 2018 and three recipients in 2017: Tinoosh Mohsenin and Ting Zhu in Computer Science & Electrical Engineering (CSEE), and Lee Blaney in Chemical, Biochemical & Environmental Engineering (CBBE).
- 2018 – 19 Whiting Public Engagement Fellowship – Denise Meringolo (History)
- 2018 – 19 Fulbright Fellowships – Christopher Tong (Modern Languages, Linguistics, & Intercultural Communication) for China; and Guenet Abraham (Visual Arts) for Ethiopia
- 2018 ICP Infinity Award – Maurice Berger, Center for Art, Design and Visual Culture
- 2018 AAI Public Policy Fellow – Greg Zaitz, CSEE
- 2018 IEEE “Art’s to Watch” – Cynthia Matuszek, CSEE

MEANINGFUL PARTNERSHIPS

UMBC/NASA Partnership
- Three major Cooperative Agreements with NASA Goddard Space Flight Center – JCET, CSST and GPHI
- Earth & Space Institute (ESI) established in 2017
- Ranked among Top 20 U.S. Universities receiving NASA funding

UMBC/NSA Partnership
- National Center of Academic Excellence in Cybersecurity Research and Education
- One of the top producers of talent for the NSA – Over 1100 employees with UMBC degrees

UMBC/UMB Partnership
- Joint Degree Programs
  – Graduate Program in Biochemistry & Molecular Biology
  – Ph.D. Programs in Gerontology and in Biostatistics
  – Dual-Campus School of Social Work
- Shared research facilities

UMBC/MDH Partnership
- Collaborative Programs with Maryland Department of Health
  – Maryland Institute for Policy Analysis & Research (MIPAR)
  – The Hilltop Institute provides expertise on State health policy