

BUILDING MOMENTUM: COLLECTIVE IMPACT IN RESEARCH, SCHOLARSHIP & CREATIVE ACHIEVEMENT 2010-2016



INNOVATIONS & IMPROVEMENTS 2010-2016

- » UMBC-UMB Research and Innovation Partnership Seed Program - 14 awards since 2013
- Strategic Awards for Research Transitions (START) Program - 80 awards since 2010
- Summer Faculty Fellowships Program - 127 awards since 2010
- High-Performance Computing Major Research Instrumentation (MRI) awards from NSF
- Major donation of High-performance Computation Cluster from NASA Goddard in 2013
- » Office of Research Development established
- Interdisciplinary Research Forum Series launched
- Partner in new USM Institute of Marine and Environmental Technology (IMET)
- Established Department of Marine Biotechnology
- Developed Ph.D. program in Geography and Environmental Systems
- Established Center for Innovation, Research, and Creativity in the Arts (CIRCA)
- Developed Dresher Center as incubator for interdisciplinary humanities scholarship
- Established Goddard Planetary Heliophysics Institute (GPHI)
- Established UMBC Center for Cybersecurity (CYBR)
- Established Accelerated Cognitive Cybersecurity Lab (ACCL)
- » Opened Performing Arts and Humanities Building (PAHB) with new performance, studio, and lab spaces
- Interdisciplinary Life Sciences Building (ILSB) design and construction funding
- Implemented software systems to support grants administration through Post-Award Initiative
- Established Molecular Characterization & Analysis Complex core facility
- NSF C*IIIE award to upgrade campus computing network to 100Gb
- Computing network upgrades for PAHB and Physics Buildings
- » Expanded communications and marketing support for research communications



SELECT ACHIEVEMENTS 2010-2016

- » First UMBC faculty member elected to National Academy of Science - Michael Summers in 2016
- Growing number of senior faculty fellows in professional societies
- Growing number of Young Investigator or Career Awards from NSF, NIH, DOE, and DARPA
- » Thirteen NSF Major Research Instrumentation (MRI) awards since 2005 - \$4.2M from NSF plus \$1.8M in UMBC match
- Wet-lab Collaboratory supported by HHMI
- Partner with NIST on first and only National Center for Non-Defense Cybersecurity
- Cyber research partnership with US Naval Academy and Office of Naval Research
- Research relationships with private sector; Medimmune, Northrop Grumman, IBM, and Lockheed Martin
- » Partner in major NEH grant addressing Baltimore race narratives
- New sources of arts & humanities research funding: Humboldt, Carnegie, ACLS
- CAST 4-year DARPA award for bio-derived medicines on demand (\$15M)
- JCET 5-year NASA renewal for environmental sensing research (\$46M)
- GPHI NASA renewal supporting space and solar physics (\$20M)
- NSF STEM BUILD award supporting UG research training (\$18M)
- NSF Marc U*Star renewal for UG student research training (\$7M)
- UMBC faculty awarded 21 Maryland Innovation Initiative (MII) grants for total of \$1.25M; 49% success rate is second only to Johns Hopkins
- Faculty and alumni creative work prominently featured in Light City Baltimore festival - 2016
- Leadership in Imagining America national conference in Baltimore - 2015
- CUERE partners in NSF Urban Water Innovation Network (\$12M)
- Hilltop Institute and MIPAR major partners with Maryland DHMH
- » Faculty served by OIA communications increased from 211 in FY2014 to 271 in FY2016



NEW UNIVERSITY COMMITMENTS 2010-2016

Through Strategic Budgeting Process

One-Time Investments	Over 7 Years
Seed research projects	\$3,634,844
Research Infrastructure	\$751,375
Research-active faculty support	\$682,324
Library enhancements	\$1,314,990
UMB/UMBC Seed Program	\$596,000
Faculty Startup Funds	\$12,100,000
TOTAL FROM DRIF:	\$19,079,533
Base Budget Investments (per year)	
Graduate assistants	\$1,045,000
Research infrastructure	\$1,414,000
Research-active faculty support	\$652,000
UMB/UMBC Partnership Seed Program	\$50,000
Technology Catalyst Fund	\$100,000
Library Enhancements	\$638,000
Other Sources (CAHSS)	\$54,000
TOTAL FROM BASE	\$3,953,000

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