



FISCAL YEAR 2022 ANNUAL REPORT
OF THE
E-Nnovation Initiative Fund Program
As required by the Economic Development Article Section 6-623

Respectfully submitted to the General Assembly of Maryland by

Renee Winsky, Chair

401 East Pratt Street

Baltimore, MD 21202

September 2023



Wes Moore, Governor | Aruna Miller, Lt. Governor

Overview

Pursuant to Section §6–623 of the Economic Development Article as amended, on or before January 1st of each year beginning in 2016, the Department of Commerce (Commerce) shall submit a report on the implementation of the E-Nnovation Initiative Fund Program (Program) to the Governor and, in accordance with § 2–1246 of the State Government Article, to the Senate Budget and Taxation Committee, and the House Ways and Means Committee.

The Program became fully operational on July 1, 2014, and this is the seventh Annual Report. The purpose and intent of the Program is to retain and recruit top university researchers and encourage collaboration among Maryland research universities, federal agencies, and the private sector (especially entrepreneurial companies). The combination of top talent and collaboration can enhance the economic competitiveness of the State as it builds on existing clusters of research and innovation. The Program gives Maryland a tremendous advantage in the intense global competition for the best minds in the world, and will provide opportunities, jobs, and industries created by their work.

The Program leverages the impact of State funds through matching funds from private donors to universities. The legislation which created the Program calls for an annual appropriation of \$8.5 million beginning in FY 2016. The Authority believes that the Program is meeting its legislative goals. The breadth of applicants and the stature of the awardees provide Maryland with a depth of experience that will advance the State’s competitive advantage.

Members of the E-Nnovation Initiative Fund Authority

Members of the Maryland E-Nnovation Initiative Fund Authority (Authority) are:

- Robert Hallenbeck (Chair), BD Biosciences (retired)
- Kelly M. Schulz/R. Michael Gill¹, Secretary, Maryland Department of Commerce ex officio
- Jay Perman, Chancellor, University System of Maryland ex officio
- Troy Stovall, Executive Director/Chief Executive Officer, TEDCO ex officio
- Renee Winsky, President & Founder, Bay One Group, LLC
- Stephen Auvil, Executive Vice President - Programs, TEDCO ex officio
- Jack Miner, Chief Investment Officer, TEDCO ex officio

Commerce staff and the Office of the Attorney General provide administrative and legal support to the Authority.

II. Meetings of the Authority

During FY 2022, the Authority held meetings between July 1, 2021, and July 9, 2022, The Authority had two Open meetings in FY 2022 and decided that grant agreements must be signed within 60 days or funding may be withdrawn. They also considered amendments to two endowed professorship research plans.

¹ During this reporting period the Secretary of Commerce changed.

The Authority met on August 13, 2021, to review first-round applications and discussed the FY 2019 Endowed Chair in Project Management Research Endowment Plan at Hood College. On October 19, 2021, they discussed the vacancy for the FY 2017 Director of Regenerative Agriculture position at Washington College. Additionally, on February 28, 2022, they reviewed second-round applications to make decisions on research endowment plans and tuition benefits for fellowship positions.

III. FY 2022 Matching Fund Awards and Disbursements

FY 2022 Matching Funds Awards

Activities which continued in FY 2022 included the approval of matching funds to successful applicants. The Authority gave fourteen awards to ten different institutions. Twelve of the fourteen awards were made during the Round 1 application process, with the Authority approving awards at the August 13, 2021, meeting. The Authority made two additional awards during the Round 2 application process, with those awards finalized at the February 28, 2022, meeting.

Awards totaled \$13,600,000 in FY 2022.

The following decisions were announced for FY 2022 round 1 awards:

- Goucher College for the Endowed Professorship in Bio-Chemical Sciences and Chemistry – (\$1,000,000)
- Hood College for the Endowed Dean of the School of Health - (\$1,000,000)
- Johns Hopkins University for The George W. Hambrick, Jr., MD Professorship in Dermatology – (\$1,150,000)
- Johns Hopkins University for the David Robinson Professorship in Vestibular Neurology – (\$1,800,000)
- Morgan State University for the Eugene DeLoatch Endowed Chair in IoT – (\$1,000,000)
- Morgan State University for the Endowed Professorship in Brain Science – (\$1,000,000)
- Morgan State University for the Endowed Chair in Psychometric and Predictive Analytics – (\$1,000,000)
- University of Maryland Baltimore for the Alicia and Yaya Viral Pathogen Research Professorship in Microbiology and Immunology – (\$750,000)
- University of Maryland Baltimore for the William E. and Sally H. Brown Professorship in Parkinson’s and Movement Disorders – (\$500,000)
- University of Maryland Baltimore County for the Fred and Virginia Pausch Endowed Professorship in Economics - (\$1,000,000)
- University of Maryland College Park for the Brendan Iribe Endowed Professorships – (\$1,140,000)
- Washington College for the Chair in Natural and Cultural Resource Management – (\$1,250,000)

Total awarded \$12,590,000

The following decisions were announced for FY 2022 Round 2 awards:

- Bowie State University for the Cyber – Entrepreneurship Innovations – (\$500,000)
- Hood College for the Endowed Director of the Biomedical Research and Training Center – (\$510,000)

Total awarded \$1,010,000

FY 2022 Disbursements

The following are the nonprofit institutions of higher education that received allocation and distribution of funds from the Fund during FY 2022:

Bowie State University
1400 Jericho Park Road
Bowie, Maryland 20715

- Contact: Anika Bissahoyo, Ph.D., Assistant Vice President for Research
- Number of FY 2022 Awards: 1
- Amount of FY 2022 Awards: \$500,000
- Cumulative Awards: \$1,000,000
- Undisbursed amount at the end of FY 2022: \$500,000
- Funding:
 - *Endowed Chair of Cybersecurity* – FY 2021
 - *Cyber – Entrepreneurship Innovations* – FY 2022

Goucher College
1021 Dulaney Valley Road
Towson, Maryland 21204

- Contact: Andrea C. Marsh, Director of Faculty Grants and Sponsored Research
- Number of FY 2022 Awards: 1
- Amount of FY 2022 Awards: \$1,000,000.
- Cumulative Awards: \$1,500,000
- Undisbursed amount at the end of FY 2022: \$375,000
- Funding:
 - *Endowed Professorship in Integrative Data Analytics* – FY 2021
 - *Endowed Professorship in Bio-Chemical Sciences and Chemistry* – FY 2022

Hood College
401 Rosemount Avenue
Frederick, Maryland 21701

- Contact: Jaime Cacciola, Director of Grants
- Number of FY 2022 Awards: 2
- Amount of FY 2022 Awards: \$1,510,000.
- Cumulative Awards: \$4,454,000
- Undisbursed amount at the end of FY 2021: \$760,000
- Funding:
 - *Endowed Chair in Advanced Bioproducts Research and Education* – FY 2017
 - *Endowed Chair in Project Management* – FY 2019
 - *Endowed Chair in Sustainability Studies* – FY 2021
 - *Endowed Dean of the School of Health* – FY 2022
 - *Endowed Director of the Biomedical Research and Training Center* – FY 2022

The Johns Hopkins University
3400 North Charles Street
Baltimore, Maryland 21218

- Contact: Denis Wirtz, Ph.D., Vice Provost of Research
- Number of FY 2022 Awards: 2
- Amount of FY 2022 Awards: \$2,950,000
- Cumulative Awards: \$9,381,250
- Undisbursed amount at the end of FY 2022: \$0
- Funding:
 - *Professorship in Water and Public Health* – FY 2016
 - *Reta Hiers Professorship in Tarlov Cyst Disease* – FY 2016
 - *Mary Jo Rogers Professorship in Cancer Immunology and Melanoma Research* – FY 2017
 - *Charles Glenn Grover Estate for Advanced Macular Degeneration* – FY 2018
 - *Endowed Fund - Branna and Irv Sisenwein Estate* – FY 2018
 - *Jennison Family Professorship in Neurosurgery* – FY 2018
 - *Endowed Fund in Honor of Marcella E. Woll* – FY 2019
 - *Katey Ayers Professorship in Innovative Care in Aging and Mental Health* – FY 2020
 - *Stephen B. Sarasohn Clinical Research Fund* – FY 2021
 - *The George W. Hambrick, Jr., MD Professorship in Dermatology* – FY 2022
 - *David Robinson Professorship in Vestibular Neurology* – FY 2022

Morgan State University
1700 E. Cold Spring Lane
Baltimore, Maryland 21251

- Contact: Tara Turner, Interim Vice President for Institutional Advancement
- Number of FY 2022 Awards: 3
- Amount of FY 2022 Awards: \$3,000,000
- Cumulative Awards: \$3,000,000
- Undisbursed amount at the end of FY 2022: \$1,500,000
- Funding:
 - *Eugene DeLoatch Endowed Chair in IoT* – FY 2022
 - *Endowed Professorship in Brain Science* – FY 2022
 - *Endowed Chair in Psychometric and Predictive Analytics* – FY 2022

University of Maryland, Baltimore
220 Arch Street, 14th Floor
Baltimore, Maryland 21201

- Contact: Bruce Jarrell, Ph.D., President
- Number of FY 2022 Awards: 2
- Amount of FY 2022 Awards: \$1,250,000
- Cumulative Awards: \$10,849,750
- Undisbursed amount at the end of FY 2022: \$187,500
- Funding:
 - *Endowed Professorship in Entrepreneurial Surgical Science* – FY 2016
 - *Robert C. Gallo Distinguished Professorship* – FY 2016

- *Robert E. Fischell, ScD Dean's Endowed Professorship* – FY 2017
- *Dr. Angela and Harry Brodie Distinguished Professorship in Translational Cancer Research* – FY 2017
- *Dr. Bizhan Aarabi Professorship in Neurotrauma* – FY 2018
- *Dr. Martin Helrich Professorship in Anesthesiology* – FY 2018
- *The James and Carolyn Frenkil Dean's Professorship Fund* – FY 2019
- *Frederick G. Smith MS., D.D.S. and Venice K. Paterakis, D.D.S. Endowed Professorship in Oral and Maxillofacial Surgery* – FY 2019
- *The Howard M. Eisenberg, MD Distinguished Professorship in Neurosurgery* – FY 2020
- *The Paul & Jean Corcoran Endowed Professorship* – FY 2021
- *Dr. Richard and Kathryn Taylor Professorship in Neurology* – FY 2021
- *Charles Gordon Smith Endowed Professorship in HIV Research* – FY 2021
- *The Richard P. Barth Professorship in Children's Services Research* – FY 2021
- *Alicia and Yaya Viral Pathogen Research Professorship in Microbiology and Immunology* – FY 2022
- *William E. and Sally H. Brown Professorship in Parkinson's and Movement Disorders* – FY 2022

University of Maryland Baltimore County
1000 Hilltop Circle
Baltimore, Maryland 21250

- Contact: Greg Simmons, Vice President for Institutional Advancement
- Number of FY 2022 Awards: 1
- Amount of FY 2022 Awards: \$1,000,000
- Cumulative Awards: \$1,900,000
- Undisbursed amount at the end of FY 2022: \$1,900,000
- Funding:
 - *Dr. Bimal Sinha Endowed Professorship in Statistics* – FY 2021
 - *Fred and Virginia Pausch Endowed Professorship in Economics* – FY 2022

University of Maryland, College Park
7901 Regents Drive
College Park, MD 20783

- Contact: Matthew Hodge, Vice President, University Relations
- Number of FY 2022 Awards: 1
- Amount of FY 2022 Awards: \$1,140,000
- Cumulative Awards: \$12,829,250
- Undisbursed amount at the end of FY 2022: \$0
- Funding:
 - *Michael and Eugena Brin Endowed Chair in Mathematics* – FY 2016
 - *Reginald Allan Hahne Endowed Professorship in Computer Science* – FY 2016
 - *Paul Chrisman Iribe Endowed E-Novate Professorship* – FY 2016
 - *Capital One Professorship in the Department of Computer Science* – FY 2017
 - *Dr. Barry L. Mersky Professorship in the Department of Computer Science* – FY 2017
 - *Andrew and Mary Balo and Nicholas and Susan Simon Endowed Chair in the Life Sciences* – FY 2017

- *Capital One Chair in Machine Learning and Computer Science* – FY 2018
- *Ray R. Weil Distinguished Endowed Professorship in Soil Science* – FY 2018
- *Brin Family Endowed Professorships in Theoretical Computer Science* – FY 2019
- *Clark Leadership Chair in Data Analytics* – FY 2019
- *Clark Leadership Chair in Data Analytics* – FY 2020
- *Pier Girogio Perotta Endowed Professorship* – FY 2020
- *Clark Leadership in Neuroscience* – FY 2020
- *Brendan Iribe Endowed Professorships* – FY 2022

Washington College
300 Washington Avenue
Chestertown, Maryland 21620

- Contact: Valerie Stewart, Associate Director, Institutional Giving and Stewardship
- Number of FY 2022 Awards: 1
- Amount of FY 2022 Awards: \$1,250,000
- Cumulative Awards: \$6,976,825
- Undisbursed amount at the end of FY 2022: \$312,500
- Funding:
 - *Andelot Endowment Fund for the Center for Environment and Society* – FY 2016
 - *Director of Regenerative Agriculture* – FY 2017
 - *Directorship in Geographic Information Systems* – FY 2019
 - *Director of the River and Field Campus* – FY 2020
 - *Chair in Natural and Cultural Resource Management* – FY 2022

IV. Observations and Recommendations

- Supply and Demand

The Authority notes that there was strong demand for the matching grants and expects this demand to continue as Commerce increased promotion of the Program to non-profit institutions of higher education in the State in FY 2022. The Authority recommends continued level funding in future years.

- Increased Participation of Institutions

There continues to be increased participation in the program by smaller colleges and Historically Black Colleges and Universities, contributing more broadly to economic development across Maryland. Continued funding of the Program should continue to stimulate private, multi-million-dollar donations to Maryland's colleges and universities.

- Diversity of Awards

The Authority has observed that the ninth year of the Program has seen a diverse range of recipients and institutions being awarded. This diversity extends to demographics, geographic locations, and technical and scientific fields of study. Although five of the fourteen awards were given to large, research-oriented universities, the Authority is pleased to note that there was participation from other institutions in the Program for the first time. It is worth emphasizing that highly talented and entrepreneurial individuals can make valuable contributions outside of the traditional research institutions that are typically associated with state-funded programs. The Program has funded various fields of study in FY 2022, including professorships in brain science, neurology, biomedical training and research, and cyber innovations.