



FISCAL YEAR 2021 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

Robert Hallenbeck, Chair

401 East Pratt Street

Baltimore, MD 21202

December 2021



Larry Hogan, Governor | Boyd Rutherford, Lt. Governor

OPEN *for* **Business**

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 for 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 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.

I. 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, 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 & CEO, Leadership Maryland and 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

The Authority conducted five meetings from July 1, 2020 to June 30, 2021 (FY 2021).

- July 17, 2020 – Review, consideration, and determination of the University of Maryland Baltimore, School of Medicine’s (UMSOM) request to amend its FY 2018 Harry and Angela Brodie Professorship Research Endowment Plan.
- Briefing on the MEIF program for new Authority Members. Review, consideration, and determination of supplemental financial information of Johns Hopkins University’s FY

2020 Endowment for the Katey Ayers Professorship in Innovative Care in Aging and Mental Health.

- August 26, 2020 – Review, discussion, and approval of round 1 applications (due August 1, 2020). Review, consideration, and discussion of the University of Maryland College Park’s request to amend its FY 2017 Elizabeth Iribe Chair for Innovation in the Department of Computer Science Research Endowment Plan. Discussion of the University of Maryland Eastern Shore’s (UMES) FY 2020 Roger R. Blunt and Vivian Bowers Blunt Chair in Construction and Technology Innovation Award.
- October 29, 2020 – Review, consideration, and determination of the University of Maryland College Park’s request to amend its FY 2017 Elizabeth Iribe Chair for Innovation in the Department of Computer Science Research Endowment Plan. Review, consideration, and determination of the University of Maryland Eastern Shore’s (UMES) request to amend its FY 2020 Roger R. Blunt and Vivian Bowers Blunt Chair in Construction and Technology Innovation Research Endowment Plan.
- December 3, 2020 – Review, discussion, and approval of round 2 applications (due November 1, 2020). Review and discussion of FY 2020 MEIF NPIHE Annual Reports. Review, consideration, and determination of the University of Maryland College Park’s request to amend its FY 2017 Elizabeth Iribe Chair for Innovation in the Department of Computer Science Research Endowment Plan.
- February 5, 2021 – Review, consideration, and determination of the University of Maryland Eastern Shore’s (UMES) request to amend its FY 2020 Roger R. Blunt and Vivian Bowers Blunt Chair in Construction and Technology Innovation Research Endowment Plan to change the name to Endowed Chair in Entrepreneurship & Program Innovation.

III. FY 2021 Matching Fund Awards and Disbursements

FY 2021 Matching Fund Awards

Activities which continued in FY 2021 included the approval of matching funds to successful applicants. The Authority made eleven awards to seven different institutions. Nine of the eleven awards were made during the Round 1 application process, with the Authority approving awards at the August 26, 2020, meeting. The Authority made two additional awards during the Round 2 application process, with those awards finalized at the December 3, 2020, meeting.

Awards totaled \$7,550,000 in FY 2021.

The following decisions were announced for FY 2021 round 1 awards:

- Goucher College for the *Endowed Professorship in Integrative Data Analytics* – (\$500,000)
- Hood College for the *Endowed Chair in Sustainability Studies* – (\$1 million)
- Johns Hopkins University for the *Stephen B. Sarasohn Clinical Research Fund* – (\$900,000)
- Maryland Institute College of Art for the *MICA Center for Social Design – Design & Health Initiative* – (\$500,000)
- University of Maryland, Baltimore for *The Paul & Jean Corcoran Endowed Professorship* – (\$750,000)

- University of Maryland, Baltimore for the *Dr. Richard and Kathryn Taylor Professorship in Neurology* – (\$750,000)
 - University of Maryland, Baltimore for the *Charles Gordon Smith Endowed Professorship in HIV Research* – (\$750,000)
 - University of Maryland, Baltimore for *The Richard P. Barth Professorship in Children’s Services Research* – (\$500,000)
 - University of Maryland Baltimore County for the *Bimal Sinha Endowed Professorship* – (\$900,000)
- Total Awarded \$6,550,000

The following decisions were announced for FY 2021 round 2 awards:

- Bowie State University for the *Endowed Chair of Cybersecurity* – (\$500,000)
 - Goucher College for the *Endowed Professorship in Integrative Data Analytics* – (\$500,000)
- Total Awarded \$1 million

FY 2021 Disbursements

The following are the nonprofit institutions of higher education that received allocation and distribution of funds from the Fund during FY 2021:

Bowie State University
1400 Jericho Park Road
Bowie, Maryland 20715

- Contact: Anika Bissahoyo, Ph.D., Assistant Vice President for Research
- Number of FY 2021 Awards: 1
- Amount of FY 2021 Awards: \$500,000
- Cumulative Awards: \$500,000
- Undisbursed amount at the end of FY 2021: \$0
- Funding:
 - *Endowed Chair of Cybersecurity* – FY 2021

Goucher College
1021 Dulaney Valley Road
Towson, Maryland 21204

- Contact: Andrea C. Marsh, Director of Faculty Grants and Sponsored Research
- Number of FY 2021 Awards: 2
- Amount of FY 2021 Awards: \$1,000,000
- Cumulative Awards: \$1,000,000
- Undisbursed amount at the end of FY 2021: \$125,000
- Funding:
 - *Endowed Professorship in Integrative Data Analytics* – FY 2021

Hood College
401 Rosemount Avenue
Frederick, MD 21701

- Contact: Jaime Cacciola, Director of Grants
- Number of FY 2021 Awards: 1
- Amount of FY 2021 Awards: \$1,000,000
- Cumulative Awards: \$2,944,000
- Undisbursed amount at the end of FY 2021: \$1,000,000
- 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

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

- Contact: Denis Wirtz, Ph.D., Vice Provost of Research
- Number of FY 2021 Awards: 1
- Amount of FY 2021 Awards: \$900,000
- Cumulative Awards: \$9,381,250
- Undisbursed amount at the end of FY 2021: \$0
- Funding:
 - *Professorship in Water and Public Health* – FY 2016
 - *Reta Hiers Professorship in Tarlov Cyst Disease* – FY 2016
 - *Mary Jo Rogers Professorship in Melanoma* – FY 2017
 - *Charles Glenn Grover Estate for Advanced Macular Degeneration* – FY 2018
 - *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

Loyola University of Maryland
4501 North Charles Street
Baltimore, MD 21210

- Contact: Amanda Thomas, Provost and Vice President of Academic Affairs
- Number of FY 2021 Awards: 0
- Amount of FY 2021 Awards: \$0
- Cumulative Awards: \$500,000
- Undisbursed amount at the end of FY 2020: \$125,000
- Funding:
 - *Endowed Professorship in Innovation* – FY 2020

Maryland Institute College of Art (MICA)

1300 W. Mt. Royal Avenue

Baltimore, MD 21217

- Contact: Donald Jones, Vice President, Advancement
- Number of FY 2021 Awards: 1
- Amount of FY 2021 Awards: \$500,000
- Cumulative Awards: \$1,000,000
- Undisbursed amount at the end of FY 2021: \$500,000
- Funding:
 - *MICA Center for Social Design* – FY 2019
 - *MICA Center for Social Design – Design & Health Initiative* – FY 2021

University of Maryland, Baltimore

220 Arch Street, 14th Floor

Baltimore, MD 21201

- Contact: Bruce Jarrell, Ph.D., President
- Number of FY 2021 Awards: 4
- Amount of FY 2021 Awards: \$2,750,000
- Cumulative Awards: \$11,849,750
- Undisbursed amount at the end of FY 2021: \$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
 - *Drs. Angela and Harry Brodie Distinguished Professorship in Translational Cancer Research* – FY2017
 - *Dr. Bizhan Aarabi Professorship in Neurotrauma* – FY 2018
 - *Dr. Martin Helrich Professorship in Anesthesiology* – FY 2018
 - *The James and Carolyn Frinkil Dean's Professorship Fund* – FY 2019
 - *School of Dentistry – Frederick G. Smith MS., D.D.S. and Venice K. Paterakis, D.D.S. Endowed Professorship in Oral and Maxillofacial Surgery* – FY 2019
 - *Endowed Professorship – The Howard M. Eisenberg, MD Distinguished Professorship in Neurosurgery* – FY 2020
 - University of Maryland, Baltimore for *The Paul & Jean Corcoran Endowed Professorship* – FY 2021
 - University of Maryland, Baltimore for the *Dr. Richard and Kathryn Taylor Professorship in Neurology* – FY 2021
 - University of Maryland, Baltimore for the *Charles Gordon Smith Endowed Professorship in HIV Research* – FY 2021
 - University of Maryland, Baltimore for *The Richard P. Barth Professorship in Children's Services Research* – FY 2021

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

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

University of Maryland Eastern Shore
30665 Student Services Center
Princess Anne, MD 21853

- Contact: David A. Balcom, Vice President of Institutional Advancement
- Number of FY 2021 Awards: 0
- Amount of FY 2021 Awards: \$0
- Cumulative Awards: \$2,000,000
- Undisbursed amount at the end of FY 2021: \$500,000
- Funding:
 - *Endowed Chair in Entrepreneurship & Program Innovation – FY 2020*

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 2021. 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, 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 notes that the awards and the recipient institutions in the seventh year of the Program are characterized by diversity in demographics, geography, and technical and scientific fields of study. While large, research-oriented universities garnered five of the eleven awards, the Authority was pleased to see participation in the Program for the first time by other institutions. It is important to note that highly talented, entrepreneurial individuals need not contribute only through the State's traditional research institutions. Fields of study funded by the Program in FY 2021 include integrative data analytics, sustainability studies, cardiology, social design, HIV research, neurology, children services, infections and infectious diseases, statistics, and cybersecurity.

Update of Evaluation Criteria

The Authority implemented the updated Evaluation Criteria for applications submitted in FY 2021, adding “Compliance with Reporting Requirements” to the evaluation criteria the Authority considers. The Authority is authorized to consider a NPIHE’s lack of compliance with reporting requirements when evaluating new applications. COMAR 24.05.22.05D allows the Authority to consider (1) compliance with other research endowment plans previously approved for the institution; and (2) “such other evaluation criteria as the Authority may establish from time to time.” Noncompliance of the reporting requirements (including the proper formatting of reports) will be considered and weighted against a NPIHE who is not in compliance at the time of application submissions.