

SENATE BILL 753

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CF HB 1334

By: **Senator Hester**

Introduced and read first time: February 7, 2022

Assigned to: Finance and Budget and Taxation

Committee Report: Favorable with amendments

Senate action: Adopted

Read second time: March 13, 2022

CHAPTER _____

1 AN ACT concerning

2 **Education and Labor and Employment – Cyber Warrior Diversity Program and**
3 **Workforce Development – Development for Cybersecurity**

4 FOR the purpose of requiring the Maryland Higher Education Commission, in consultation
5 with a certain organization, to identify certification trends in information technology
6 and cybersecurity sectors on or before a certain date each year and expand the Cyber
7 Warrior Diversity Program under certain circumstances; repealing the requirement
8 that the Commission allocate certain funds to certain institutions in the Program on
9 a certain basis; establishing requirements related to unexpended funds allocated by
10 the Commission under the Program; establishing the Cybersecurity Workforce
11 Accelerator Program at the University of Maryland Baltimore County to increase the
12 cybersecurity workforce in the State, increase the investment of the State in
13 cybersecurity workforce programs and educational programs at certain institutions,
14 and for other purposes related to the cybersecurity workforce in the State; requiring
15 the Department of Commerce and the Maryland Department of Labor to assist in
16 administering the Accelerator Program as necessary; establishing the Cybersecurity
17 Workforce Accelerator Fund; and generally relating to the Cyber Warrior Diversity
18 Program, the Cybersecurity Workforce Accelerator, and cybersecurity workforce
19 programs.

20 BY repealing and reenacting, without amendments,
21 Article – Education
22 Section 11–1401(a), (c), and (d)
23 Annotated Code of Maryland
24 (2018 Replacement Volume and 2021 Supplement)

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.

Underlining indicates amendments to bill.

~~Strike out~~ indicates matter stricken from the bill by amendment or deleted from the law by amendment.



BY repealing and reenacting, with amendments,
Article – Education
Section 11–1402 and 11–1405
Annotated Code of Maryland
(2018 Replacement Volume and 2021 Supplement)

BY adding to
Article – Labor and Employment
Section 11–606
Annotated Code of Maryland
(2016 Replacement Volume and 2021 Supplement)

SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND,
That the Laws of Maryland read as follows:

Article – Education

11–1401.

(a) In this subtitle the following words have the meanings indicated.

(c) “Governing entity” means:

(1) The Board of Trustees of Baltimore City Community College;

(2) The President of Bowie State University;

(3) The President of Coppin State University;

(4) The Board of Regents of Morgan State University;

(5) The President of the University of Maryland Eastern Shore; and

(6) The President of the University of Maryland Baltimore County
Training Centers.

(d) “Program” means a Cyber Warrior Diversity Program.

11–1402.

(a) There is a Cyber Warrior Diversity Program at:

(1) Baltimore City Community College;

(2) Bowie State University;

(3) Coppin State University;

(4) Morgan State University;

(5) The University of Maryland Eastern Shore; and

(6) The University of Maryland Baltimore County Training Centers that are located in the State.

(b) The purpose of each Program is to train students in computer networking and cybersecurity.

(c) The governing entity at each institution is responsible for administering the Program at that institution.

(D) ON OR BEFORE JULY 1 EACH YEAR, BEGINNING IN 2023, THE COMMISSION, IN CONSULTATION WITH THE CYBER SECURITY ASSOCIATION OF MARYLAND, INC., SHALL:

(1) IDENTIFY CERTIFICATION TRENDS IN INFORMATION TECHNOLOGY AND CYBERSECURITY SECTORS; AND

(2) IF APPLICABLE, EXPAND THE PROGRAM TO ACCOMMODATE ANY CHANGES IN CERTIFICATION TRENDS IDENTIFIED UNDER ITEM (1) OF THIS SUBSECTION.

11-1405.

(a) Subject to the requirements of this section, for fiscal year 2020 and each fiscal year thereafter, the Governor shall include in the annual State operating budget an appropriation of \$2,500,000 for the Commission to provide grants to Baltimore City Community College, Bowie State University, Coppin State University, Morgan State University, the University of Maryland Eastern Shore, and the University of Maryland Baltimore County Training Centers for the Program established under this section.

(b) Grants provided under subsection (a) of this section shall be in the amount of:

(1) At least \$10,000 per student at:

(i) Baltimore City Community College;

(ii) Bowie State University;

(iii) Coppin State University;

(iv) Morgan State University; and

(v) The University of Maryland Eastern Shore; and

(2) \$500 per student at the University of Maryland Baltimore County Training Centers, for the purpose of participation in job apprenticeship events.

(c) On or before December 15, 2019, and each December 15 thereafter, the governing entities shall notify the Commission of the number of students enrolled in each institution's Program for the current academic year.

(d) [(1)] The funding provided in each fiscal year in accordance with this section shall supplement, but not supplant, any funds that would otherwise be provided for each institution.

[(2) The Commission annually shall allocate funds to Baltimore City Community College, Bowie State University, Coppin State University, Morgan State University, the University of Maryland Eastern Shore, and the University of Maryland Baltimore County Training Centers on a pro rata basis according to the most recent enrollment data required under subsection (c) of this section.]

(E) NOTWITHSTANDING § 7-302 OF THE STATE FINANCE AND PROCUREMENT ARTICLE, AT THE END OF EACH FISCAL YEAR, ANY UNEXPENDED FUNDS ALLOCATED BY THE COMMISSION UNDER THIS SECTION SHALL:

(1) REVERT TO THE COMMISSION TO BE ALLOCATED UNDER THIS SECTION FOR THE UPCOMING FISCAL YEAR; AND

(2) BE USED TO SUPPLEMENT, BUT NOT SUPPLANT, THE AMOUNT REQUIRED TO BE APPROPRIATED TO THE COMMISSION TO BE ALLOCATED UNDER THIS SECTION FOR THE UPCOMING FISCAL YEAR.

Article – Labor and Employment

11-606.

(A) IN THIS SECTION, “ACCELERATOR PROGRAM” MEANS THE CYBERSECURITY WORKFORCE ACCELERATOR PROGRAM.

(B) THERE IS A CYBERSECURITY WORKFORCE ACCELERATOR PROGRAM IN THE MARYLAND INSTITUTE FOR INNOVATIVE COMPUTING AT THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY.

(C) THE PURPOSES OF THE ACCELERATOR PROGRAM ARE TO:

(1) INCREASE THE NUMBER OF INDIVIDUALS ENTERING THE CYBERSECURITY WORKFORCE IN THE STATE;

(2) DEVELOP A STATEWIDE ~~APPROACH TO~~ STRATEGIC PLAN FOR CYBERSECURITY WORKFORCE DEVELOPMENT;

(3) EXPAND, MARKET, AND INCREASE THE EFFICIENCY OF EXISTING CYBERSECURITY WORKFORCE PROGRAMS IN THE STATE;

(4) INVEST IN NEW AND INNOVATIVE CYBERSECURITY EDUCATION PROGRAMS ~~THAT ALIGN WITH THE STRATEGY OF THE TALENT PIPELINE MANAGEMENT INITIATIVE OF THE U.S. CHAMBER OF COMMERCE FOUNDATION;~~ ~~AND~~

~~(5) PROVIDE COORDINATION BETWEEN INSTITUTIONS THAT PROVIDE ELEMENTARY AND SECONDARY EDUCATION AND INSTITUTIONS OF HIGHER EDUCATION TO PREPARE STUDENTS FOR ENTRANCE INTO THE CYBERSECURITY WORKFORCE~~ THAT ALIGN WITH CURRENT AND FUTURE TALENT DEMAND; AND

(5) ENSURE THAT THE CYBERSECURITY WORKFORCE AND EDUCATION PROGRAMS IN THE STATE ARE INCLUSIVE AND, TO THE EXTENT PRACTICABLE, REFLECT THE RACIAL, GENDER, ETHNIC, AND GEOGRAPHIC DIVERSITY OF THE STATE.

(D) THE ACCELERATOR PROGRAM SHALL:

(1) ~~WORK WITH MAJOR INDUSTRY CYBERSECURITY ORGANIZATIONS~~ THE CYBERSECURITY ASSOCIATION OF MARYLAND, INC., TO EXPAND, MARKET, AND COORDINATE EXISTING STATE CYBERSECURITY WORKFORCE PROGRAMS;

(2) ~~WORK WITH THE CYBERSECURITY INDUSTRY TO~~ ENSURE THAT STATE CYBERSECURITY WORKFORCE PROGRAMS, INCLUDING PROGRAMS IN THE DEPARTMENT, ADDRESS THE NEEDS OF THE CYBERSECURITY INDUSTRY;

(3) ~~PUBLISH~~ DEVELOP A STRATEGY TO FILL, BY 2025, OPEN CYBERSECURITY POSITIONS IN ALIGNMENT WITH INDUSTRY DATA COLLECTED UNDER ITEM (5) OF THIS SUBSECTION ~~BY 2025;~~

(4) WORK WITH THE FEDERAL CYBERCORPS SCHOLARSHIP FOR SERVICE PROGRAM TO ADVERTISE CYBERSECURITY POSITIONS THAT ARE AVAILABLE AND ASSIST STUDENTS WITH THE APPLICATION PROCESS;

(5) WORK WITH THE DEPARTMENT OF COMMERCE AND MAJOR INDUSTRY CYBERSECURITY ORGANIZATIONS ~~TO INCREASE DEMAND-SIDE~~

~~PLANNING TO IDENTIFY THE SPECIFIC AND REAL-TIME NEEDS OF CYBERSECURITY EMPLOYERS IN THE STATE, INCLUDING BY:~~

~~(I) PROVIDING, AT NO COST, CYBERSECURITY WORKFORCE DEVELOPMENT SERVICES THAT DETERMINE HOW AN EMPLOYER'S SPECIFIC NEEDS CAN BEST BE MET;~~

~~(II) MANAGING THE DEVELOPMENT OF INDIVIDUALS WHO CAN MEET CYBERSECURITY WORKFORCE NEEDS; AND~~

~~(III) CONDUCTING RESEARCH AND OUTREACH THAT INCLUDES PLANNING AND COLLECTING REAL-TIME INDUSTRY DATA TO IDENTIFY CYBERSECURITY WORKFORCE NEEDS BY CONDUCTING RESEARCH AND OUTREACH THAT INCLUDES PLANNING AND COLLECTING REAL-TIME INDUSTRY DATA IN A PROCESS ALIGNED WITH THE TALENT PIPELINE MANAGEMENT PRACTICES OF THE U.S. CHAMBER OF COMMERCE FOUNDATION;~~

(6) WORK WITH THE STATE DEPARTMENT OF EDUCATION TO:

(I) ESTABLISH A SUMMER K-12 TEACHER EXTERNSHIP GRANT PROGRAM TO PROVIDE TEACHERS WITH PAID EXTERNSHIPS OVER THE SUMMER TO APPRENTICE AT CYBERSECURITY COMPANIES AND PARTICIPATE IN TRAINING OPPORTUNITIES AVAILABLE AT FACILITIES THAT PROVIDE CYBERSECURITY RANGE TRAINING; AND

(II) DEVELOP AND INVEST IN EDUCATIONAL AND CAREER PATHWAYS IN CYBERSECURITY THAT MEET THE COLLEGE AND CAREER READINESS STANDARD ADOPTED BY THE STATE BOARD OF EDUCATION UNDER § 7-205.1 OF THE EDUCATION ARTICLE;

(7) WORK WITH THE MARYLAND DEPARTMENT OF LABOR TO GROW THE MARYLAND EMPLOYMENT ADVANCEMENT RIGHT NOW FOR CYBERSECURITY PROGRAMS AND THE MARYLAND APPRENTICESHIP AND TRAINING PROGRAM FOR CYBERSECURITY WORKFORCE DEVELOPMENT;

~~(8) PRODUCE, IN CONSULTATION WITH STAKEHOLDERS, A STRATEGIC ROADMAP TO FILL AVAILABLE CYBERSECURITY POSITIONS BY CALENDAR YEAR 2025;~~

~~(9)~~ (9) WORK WITH APPROPRIATE PARTNERS TO PROVIDE CYBERSECURITY RANGE TRAINING AT ALL LEVELS;

~~(10)~~ (9) EXPAND THE MARYLAND TECHNOLOGY INTERNSHIP PROGRAM TO INCLUDE UNITS OF LOCAL GOVERNMENT; AND

~~(11)~~ (10) ADMINISTER THE CYBERSECURITY WORKFORCE
ACCELERATOR FUND.

(E) (1) IN THIS SUBSECTION, "FUND" MEANS THE CYBERSECURITY
WORKFORCE ACCELERATOR FUND.

(2) THERE IS A CYBERSECURITY WORKFORCE ACCELERATOR FUND.

(3) THE PURPOSE OF THE FUND IS TO SUPPORT INNOVATIVE
APPROACHES TO MEETING CYBERSECURITY WORKFORCE NEEDS.

(4) THE ACCELERATOR PROGRAM SHALL ADMINISTER THE FUND.

(5) (I) THE FUND IS A SPECIAL, NONLAPSING FUND THAT IS NOT
SUBJECT TO § 7-302 OF THE STATE FINANCE AND PROCUREMENT ARTICLE.

(II) THE STATE TREASURER SHALL HOLD THE FUND
SEPARATELY, AND THE COMPTROLLER SHALL ACCOUNT FOR THE FUND.

(6) THE FUND CONSISTS OF:

(I) MONEY APPROPRIATED IN THE STATE BUDGET TO THE
FUND; AND

(II) ANY OTHER MONEY FROM ANY OTHER SOURCE ACCEPTED
FOR THE BENEFIT OF THE FUND.

(7) THE FUND MAY BE USED ONLY FOR:

(I) ADMINISTRATION OF THE ACCELERATOR PROGRAM; AND

(II) PROVIDING GRANTS TO ELEMENTARY AND SECONDARY
SCHOOLS, INSTITUTIONS OF HIGHER EDUCATION, INCLUDING COMMUNITY
COLLEGES, AND NONPROFIT ORGANIZATIONS TO OPERATE CYBERSECURITY
WORKFORCE DEVELOPMENT PROGRAMS BASED ON THE STRATEGIC PLAN OF THE
ACCELERATOR PROGRAM FOR CYBERSECURITY WORKFORCE DEVELOPMENT.

(8) (I) THE STATE TREASURER SHALL INVEST THE MONEY OF THE
FUND IN THE SAME MANNER AS OTHER STATE MONEY MAY BE INVESTED.

(II) ANY INTEREST EARNINGS OF THE FUND SHALL BE
CREDITED TO THE GENERAL FUND OF THE STATE.

(9) EXPENDITURES FROM THE FUND MAY BE MADE ONLY IN ACCORDANCE WITH THE STATE BUDGET.

(10) FOR FISCAL YEAR 2024 ~~AND 2025~~, THE GOVERNOR SHALL INCLUDE IN THE ANNUAL BUDGET BILL AN APPROPRIATION OF ~~\$2,000,000~~ \$1,000,000 FOR THE FUND.

(F) THE DEPARTMENT OF COMMERCE AND THE DEPARTMENT SHALL ASSIST IN ADMINISTERING THE ACCELERATOR PROGRAM AS NECESSARY.

(G) FOR EACH FISCAL YEAR, THE GOVERNOR SHALL INCLUDE IN THE ANNUAL BUDGET BILL AN APPROPRIATION OF:

(1) \$1,000,000 TO THE MARYLAND EMPLOYMENT ADVANCEMENT RIGHT NOW FOR CYBERSECURITY PROGRAMS AND ADMINISTRATIVE SUPPORT;

~~(2) \$1,000,000 TO THE MARYLAND APPRENTICESHIP AND TRAINING PROGRAM FOR CYBERSECURITY WORKFORCE DEVELOPMENT AND ADMINISTRATIVE SUPPORT;~~

~~(3)~~ \$450,000 TO THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY TO FUND THE ACCELERATOR PROGRAM, INCLUDING \$250,000 TO BE USED FOR THE PURPOSES OF SUBSECTION ~~(D)(5)(H)~~ (D)(5) OF THIS SECTION;

~~(4)~~ (3) \$2,500,000 TO THE CYBER WARRIOR DIVERSITY PROGRAM;

~~(5)~~ (4) \$500,000 TO FUND THE SUMMER K-12 TEACHER EXTERNSHIP GRANT PROGRAM REQUIRED UNDER SUBSECTION (D)(6) OF THIS SECTION;

~~(6)~~ (5) ~~\$1,000,000~~ \$500,000 FOR THE UNIVERSITY SYSTEM OF MARYLAND TO DEVELOP CYBER RANGE SCENARIOS BASED ON INDUSTRY DEMAND;

~~(7)~~ (6) \$500,000 TO FUND ~~EDUCATION OPPORTUNITIES ABOUT CYBERSECURITY CAREERS~~ AND ONLINE SAFETY SKILLS IN ELEMENTARY AND SECONDARY EDUCATION; AND

~~(8)~~ (7) \$500,000 FOR THE MARYLAND TECHNOLOGY INTERNSHIP PROGRAM.

(H) THE APPROPRIATIONS REQUIRED TO BE INCLUDED IN THE ANNUAL BUDGET BILL UNDER SUBSECTIONS (E)(10) AND (G) OF THIS SECTION ARE

SUPPLEMENTAL TO AND ARE NOT INTENDED TO TAKE THE PLACE OF FUNDING THAT OTHERWISE WOULD BE APPROPRIATED FOR THOSE PURPOSES.

(I) ON OR BEFORE DECEMBER 1 ~~EACH YEAR, 2023~~, THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY, IN CONJUNCTION WITH THE DEPARTMENT AND THE DEPARTMENT OF COMMERCE, SHALL SUBMIT A REPORT ON THE OPERATION AND PERFORMANCE OF THE ACCELERATOR PROGRAM TO THE GOVERNOR AND, IN ACCORDANCE WITH § 2-1257 OF THE STATE GOVERNMENT ARTICLE, THE GENERAL ASSEMBLY.

SECTION 2. AND BE IT FURTHER ENACTED, That it is the intent of the General Assembly that:

(1) in administering the Cybersecurity Workforce Accelerator Program established under § 11-606 of the Labor and Employment Article, as enacted by Section 1 of this Act, the University of Maryland Baltimore County shall:

(i) work with the Cybersecurity Association of Maryland, Inc.'s workforce development committee; and

(ii) use the Talent Pipeline Management approach codified by the U.S. Chamber of Commerce Foundation; and

(2) any money invested in training programs in the Accelerator Program may be used to serve as matching funds for the purpose of applying for any available federal Build Back Better funds of the U.S. Economic Development Administration.

SECTION ~~2~~ 3. AND BE IT FURTHER ENACTED, That this Act shall take effect July 1, 2022. It shall remain effective for a period of 2 years and, at the end of June 30, 2024, this Act, with no further action required by the General Assembly, shall be abrogated and of no further force and effect.

Approved:

Governor.

President of the Senate.

Speaker of the House of Delegates.