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.

1   BY repealing and reenacting, with amendments,
2   Article – Education
3   Section 11–1402 and 11–1405
4   Annotated Code of Maryland
5   (2018 Replacement Volume and 2021 Supplement)

6   BY adding to
7   Article – Labor and Employment
8   Section 11–606
9   Annotated Code of Maryland
10   (2016 Replacement Volume and 2021 Supplement)

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

13   **Article – Education**

14 11–1401.

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

16   (c)   "Governing entity" means:

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

18   (2)   The President of Bowie State University;

19   (3)   The President of Coppin State University;

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

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

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

24   (d)   "Program" means a Cyber Warrior Diversity Program.

25 11–1402.

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

27   (1)   Baltimore City Community College;

28   (2)   Bowie State University;

1　　　　　　(3)　　Coppin State University;

2　　　　　　(4)　　Morgan State University;

3　　　　　　(5)　　The University of Maryland Eastern Shore; and

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

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

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

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

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

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

18　11–1405.

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

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

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

27　　　　　　　　　(i)　　Baltimore City Community College;

28　　　　　　　　　(ii)　　Bowie State University;

29　　　　　　　　　(iii)　　Coppin State University;

30　　　　　　　　　(iv)　　Morgan State University; and

1　　　　　　　　　　(v)　　　The University of Maryland Eastern Shore; and

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

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

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

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

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

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

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

23　　　　　　　　　**Article – Labor and Employment**

24　**11–606.**

25　　　　　**(A)　　IN THIS SECTION, "ACCELERATOR PROGRAM" MEANS THE**
26　**CYBERSECURITY WORKFORCE ACCELERATOR PROGRAM.**

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

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

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

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

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

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

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

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

19   **(D)**   THE ACCELERATOR PROGRAM SHALL:

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

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

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

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

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

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

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

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

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

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

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

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

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

28   **(8)**   ~~PRODUCE, IN CONSULTATION WITH STAKEHOLDERS, A STRATEGIC~~
29 ~~ROADMAP TO FILL AVAILABLE CYBERSECURITY POSITIONS BY CALENDAR YEAR~~
30 ~~2025;~~

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

33   ~~(10)~~ **(9)**   EXPAND THE MARYLAND TECHNOLOGY INTERNSHIP
34 PROGRAM TO INCLUDE UNITS OF LOCAL GOVERNMENT; AND

1 ~~(11)~~ (10) ADMINISTER THE CYBERSECURITY WORKFORCE
2 ACCELERATOR FUND.

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

5 (2) THERE IS A CYBERSECURITY WORKFORCE ACCELERATOR FUND.

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

8 (4) THE ACCELERATOR PROGRAM SHALL ADMINISTER THE FUND.

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

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

13 (6) THE FUND CONSISTS OF:

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

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

18 (7) THE FUND MAY BE USED ONLY FOR:

19 (I) ADMINISTRATION OF THE ACCELERATOR PROGRAM; AND

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

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

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

1   **(9)** E**XPENDITURES FROM THE** F**UND MAY BE MADE ONLY IN**
2 **ACCORDANCE WITH THE** S**TATE BUDGET.**

3   **(10)** F**OR FISCAL YEAR** 2024 ~~**AND** 2025~~, **THE** G**OVERNOR SHALL**
4 **INCLUDE IN THE ANNUAL BUDGET BILL AN APPROPRIATION OF** ~~**$2,000,000**~~
5 **$1,000,000 FOR THE** F**UND.**

6   **(F)** T**HE** D**EPARTMENT OF** C**OMMERCE AND THE** D**EPARTMENT SHALL**
7 **ASSIST IN ADMINISTERING THE** A**CCELERATOR** P**ROGRAM AS NECESSARY.**

8   **(G)** F**OR EACH FISCAL YEAR, THE** G**OVERNOR SHALL INCLUDE IN THE**
9 **ANNUAL BUDGET BILL AN APPROPRIATION OF:**

10   **(1)** **$1,000,000 TO THE** M**ARYLAND** E**MPLOYMENT** A**DVANCEMENT**
11 R**IGHT** N**OW FOR CYBERSECURITY PROGRAMS AND ADMINISTRATIVE SUPPORT;**

12   **(2)** ~~**$1,000,000 TO THE** M**ARYLAND** A**PPRENTICESHIP AND** T**RAINING**~~
13 ~~P**ROGRAM FOR CYBERSECURITY WORKFORCE DEVELOPMENT AND**~~
14 ~~A**DMINISTRATIVE SUPPORT;**~~

15   ~~**(3)**~~ **$450,000 TO THE** U**NIVERSITY OF** M**ARYLAND** B**ALTIMORE**
16 C**OUNTY TO FUND THE** A**CCELERATOR** P**ROGRAM, INCLUDING $250,000 TO BE USED**
17 **FOR THE PURPOSES OF SUBSECTION** ~~**(D)(5)(II)**~~ **(D)(5) OF THIS SECTION;**

18   ~~**(4)**~~ **(3)** **$2,500,000 TO THE** C**YBER** W**ARRIOR** D**IVERSITY**
19 P**ROGRAM;**

20   ~~**(5)**~~ **(4)** **$500,000 TO FUND THE SUMMER** K–12 **TEACHER**
21 **EXTERNSHIP GRANT PROGRAM REQUIRED UNDER SUBSECTION (D)(6) OF THIS**
22 **SECTION;**

23   ~~**(6)**~~ **(5)** ~~**$1,000,000**~~ **$500,000 FOR THE** U**NIVERSITY** S**YSTEM OF**
24 M**ARYLAND TO DEVELOP CYBER RANGE SCENARIOS BASED ON INDUSTRY DEMAND;**

25   ~~**(7)**~~ **(6)** **$500,000 TO FUND** ~~E**DUCATION OPPORTUNITIES ABOUT**~~
26 **CYBERSECURITY** ~~C**AREERS**~~ **AND ONLINE SAFETY SKILLS IN ELEMENTARY AND**
27 **SECONDARY EDUCATION; AND**

28   ~~**(8)**~~ **(7)** **$500,000 FOR THE** M**ARYLAND** T**ECHNOLOGY** I**NTERNSHIP**
29 P**ROGRAM.**

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

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

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

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

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

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

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

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

21 SECTION ~~2.~~ 3. AND BE IT FURTHER ENACTED, That this Act shall take effect
22 July 1, 2022. It shall remain effective for a period of 2 years and, at the end of June 30,
23 2024, this Act, with no further action required by the General Assembly, shall be abrogated
24 and of no further force and effect.

Approved:

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Governor.

_____
President of the Senate.

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Speaker of the House of Delegates.