AMENDMENT NO.______ Calendar No.______

Purpose: In the nature of a substitute.


S. 754

To support meeting our Nation’s growing cybersecurity workforce needs by expanding the cybersecurity education pipeline.

Referred to the Committee on _____________ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by Mr. WICKER (for himself, Mr. THUNE, and Mr. NELSON)

Viz:

1    Strike all after the enacting clause and insert the follow-
2     ing:

3    SECTION 1. SHORT TITLE.

4    This Act may be cited as the “Cyber Scholarship Op-
5     portunities Act of 2017”.

6    SEC. 2. FINDINGS.

7    Congress finds the following:

8    (1) A well-trained workforce is essential to
9     meeting the Nation’s cybersecurity needs.

10   (2) An October 2015 report by the National
11   Academy of Public Administration entitled “Increas-
ing the Effectiveness of the Federal Role in Cybersecurity Education” noted that the United States faces a severe shortage of properly trained and equipped cybersecurity professionals in both the government and private sector workforce.

(3) The 2015 (ISC)² Global Information Security Workshop Study stated that “the information security workforce shortfall is widening.”

(4) The National Science Foundation’s Federal Cyber Scholarship-for-Service program is a successful effort to support capacity building in institutions of higher education and scholarships for students to pursue cybersecurity careers.

SEC. 3. COMMUNITY COLLEGE CYBER PILOT PROGRAM AND ASSESSMENT.

(a) PILOT PROGRAM.—Not later than 1 year after the date of enactment of this Act, as part of the Federal Cyber Scholarship-for-Service program established under section 302 of the Cybersecurity Enhancement Act of 2014 (15 U.S.C. 7442), the Director of the National Science Foundation, in coordination with the Director of the Office of Personnel Management, shall develop and implement a pilot program at not more than 10, but at least 5, community colleges to provide scholarships to eli-gible students who—
(1) are pursuing associate degrees or specialized
program certifications in the field of cybersecurity;
and
(2)(A) have bachelor's degrees; or
(B) are veterans of the armed forces.
(b) ASSESSMENT.—Not later than 1 year after the
date of enactment of this Act, as part of the Federal Cyber
Scholarship-for-Service program established under section
302 of the Cybersecurity Enhancement Act of 2014 (15
U.S.C. 7442), the Director of the National Science Foun-
dation, in coordination with the Director of the Office of
Personnel Management, shall assess the potential benefits
and feasibility of providing scholarships through commu-
nity colleges to eligible students who are pursuing asso-
ciate degrees, but do not have bachelor's degrees.

SEC. 4. FEDERAL CYBER SCHOLARSHIP-FOR SERVICE PRO-
GRAM UPDATES.
(a) IN GENERAL.—Section 302 of the Cybersecurity
(1) by striking subsection (b)(3) and inserting
the following:
“(3) prioritize the employment placement of at
least 80 percent of scholarship recipients in an exec-
utive agency (as defined in section 105 of title 5,
United States Code); and
“(4) provide awards to improve cybersecurity education at the kindergarten through grade 12 level—

“(A) to increase interest in cybersecurity careers;

“(B) to help students practice correct and safe online behavior and understand the foundational principles of cybersecurity;

“(C) to improve teaching methods for delivering cybersecurity content for kindergarten through grade 12 computer science curricula; and

“(D) to promote teacher recruitment in the field of cybersecurity.”;

(2) by amending subsection (d) to read as follows:

“(d) POST-AWARD EMPLOYMENT OBLIGATIONS.—

Each scholarship recipient, as a condition of receiving a scholarship under the program, shall enter into an agreement under which the recipient agrees to work for a period equal to the length of the scholarship, following receipt of the student’s degree, in the cybersecurity mission of—

“(1) an executive agency (as defined in section 105 of title 5, United States Code);
“(2) Congress, including any agency, entity, office, or commission established in the legislative branch;
“(3) an interstate agency;
“(4) a State, local, or tribal government; or
“(5) a State, local, or tribal government-affiliated non-profit that is considered to be critical infrastructure (as defined in section 1016(e) of the USA Patriot Act (42 U.S.C. 5195c(e)))’’;

(3) in subsection (f)—

(A) by amending paragraph (3) to read as follows:
“(3) have demonstrated a high level of competency in relevant knowledge, skills, and abilities, as defined by the national cybersecurity awareness and education program under section 401;”; and

(B) by amending paragraph (4) to read as follows:
“(4) be a full-time student in an eligible degree program at a qualified institution of higher education, as determined by the Director of the National Science Foundation, except that in the case of a student who is enrolled in a community college, be a student pursuing a degree on a less than full-time basis, but not less than half-time basis; and”;}
(4) by amending subsection (m) to read as follows:

"(m) PUBLIC INFORMATION.—

"(1) EVALUATION.—The Director of the National Science Foundation, in coordination with the Director of the Office of Personnel Management, shall periodically evaluate and make public, in a manner that protects the personally identifiable information of scholarship recipients, information on the success of recruiting individuals for scholarships under this section and on hiring and retaining those individuals in the public sector cyber workforce, including on—

"(A) placement rates;

"(B) where students are placed, including job titles and descriptions;

"(C) student salary ranges for students not released from obligations under this section;

"(D) how long after graduation they are placed;

"(E) how long they stay in the positions they enter upon graduation;

"(F) how many students are released from obligations; and
“(G) what, if any, remedial training is required.

“(2) REPORTS.—The Director of the National Science Foundation, in coordination with the Office of Personnel Management, shall submit, at least once every 3 years, to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report, including the results of the evaluation under paragraph (1) and any recent statistics regarding the size, composition, and educational requirements of the Federal cyber workforce.

“(3) RESOURCES.—The Director of the National Science Foundation, in coordination with the Director of the Office of Personnel Management, shall provide consolidated and user-friendly online resources for prospective scholarship recipients, including, to the extent practicable—

“(A) searchable, up-to-date, and accurate information about participating institutions of higher education and job opportunities related to the field of cybersecurity; and

“(B) a modernized description of cybersecurity careers.”
(b) SAVINGS PROVISION.—Nothing in this section, or
an amendment made by this section, shall affect any
agreement, scholarship, loan, or repayment, under section
302 of the Cybersecurity Enhancement Act of 2014 (15
U.S.C. 7442), in effect on the day before the date of enact-
ment of this Act.

SEC. 5. CYBERSECURITY TEACHING.

Section 10A(i) of the National Science Foundation
Authorization Act of 2002 (42 U.S.C. 1862n-1(i)) is
amended—

(1) by amending paragraph (5) to read as fol-

lows:

"(5) the term ‘mathematics and science teacher’
means a science, technology, engineering, mathe-
matics, or computer science, including cybersecurity,
teacher at the elementary school or secondary school
level;’; and

(2) by amending paragraph (7) to read as fol-

lows:

"(7) the term ‘science, technology, engineering,
or mathematics professional’ means an individual
who holds a baccalaureate, master’s, or doctoral de-
gree in science, technology, engineering, mathe-
matics, or computer science, including cybersecurity,
1 and is working in or had a career in such field or
2 a related area; and'.'