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(Original Signature of Member)

119TH CONGRESS
1ST SESSION

H. R. _____

To support National Science Foundation education and professional development relating to artificial intelligence, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. FONG introduced the following bill; which was referred to the Committee
on _____

A BILL

To support National Science Foundation education and professional development relating to artificial intelligence, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “NSF AI Education
5 Act of 2025”.

1 **SEC. 2. SCHOLARSHIPS AND FELLOWSHIPS IN ARTIFICIAL**
2 **INTELLIGENCE.**

3 Paragraph (2) of section 5401(e) of the National Arti-
4 ficial Intelligence Initiative Act of 2020 (15 U.S.C.
5 9451(e); enacted as part of title LIV of division E of the
6 William M. (Mac) Thornberry National Defense Author-
7 ization Act for Fiscal Year 2021 (Public Law 116–283))
8 is amended—

9 (1) in the heading, by striking “FACULTY”; and
10 (2) by adding at the end the following new sub-
11 paragraphs:

12 “(D) STUDENT SCHOLARSHIPS AND FEL-
13 LOWSHIPS IN ARTIFICIAL INTELLIGENCE.—

14 “(i) IN GENERAL.—The Director of
15 the National Science Foundation may sup-
16 port scholarships and fellowships for un-
17 dergraduate and graduate students by
18 making awards through institutions of
19 higher education, including community col-
20 leges, to students who are enrolled in pro-
21 grams of study leading to degrees or con-
22 centrations in or related to the design, re-
23 search, assessment, development, deploy-
24 ment, integration, or application of artifi-
25 cial intelligence.

1 “(ii) CONSIDERATIONS.—In carrying
2 out clause (i), the Director of the National
3 Science Foundation may prioritize making
4 awards to students who are enrolled in
5 programs of study leading to degrees or
6 concentrations in or related to any of the
7 following:

8 “(I) The teaching of artificial in-
9 telligence at elementary schools, sec-
10 ondary schools, career and technical
11 education schools, institutions of high-
12 er education, or through other higher
13 education and professional education
14 programs.

15 “(II) Artificial intelligence and
16 advanced manufacturing, including
17 the integration of artificial intelligence
18 into advanced manufacturing oper-
19 ations.

20 “(III) Artificial intelligence and
21 agriculture, including the integration
22 of artificial intelligence into agricul-
23 tural operations, prediction, and deci-
24 sion making.

1 “(iii) AWARDS.—Scholarships and fel-
2 lowships awarded under this subparagraph
3 may be in the form of awards that may
4 cover the cost of tuition, education-related
5 fees, a stipend, and professional develop-
6 ment funds for a period of up to five years.
7 Such scholarships and fellowships shall be
8 paid directly to the institution of higher
9 education in which the student is enrolled.

10 “(iv) OUTREACH.—The Director of
11 the National Science Foundation shall con-
12 duct outreach and encourage applications
13 from rural-located institutions of higher
14 education, rural-serving institutions of
15 higher education, emerging research insti-
16 tutions, Tribal Colleges or Universities,
17 and institutions located in an Established
18 Program to Stimulate Competitive Re-
19 search (EPSCoR) jurisdiction.

20 “(v) METHOD.—The Director of the
21 National Science Foundation may carry
22 out this subparagraph by making awards
23 through new or existing programs.

24 “(E) ARTIFICIAL INTELLIGENCE PROFES-
25 SIONAL DEVELOPMENT FELLOWSHIPS.—

1 “(i) IN GENERAL.—The Director of
2 the National Science Foundation may sup-
3 port activities to promote the exchange of
4 ideas and encourage collaborations between
5 institutions of higher education and indus-
6 try partners in the field of artificial intel-
7 ligence, including through fellowships for
8 students, teachers, faculty, and industry
9 professionals.

10 “(ii) SUPPLEMENTALS FOR STUDENTS
11 AND FACULTY.—The Director of the Na-
12 tional Science Foundation may award fel-
13 lowships for students and faculty to pursue
14 professional development programs in
15 STEM fields that are administered by or
16 affiliated with institutions of higher edu-
17 cation, including community colleges, in
18 order to enable recipients to attain skills,
19 training, or education in partnership with
20 industry members on the design, research,
21 assessment, development, deployment, inte-
22 gration, or application of artificial intel-
23 ligence.

24 “(iii) FELLOWSHIPS FOR INDUSTRY
25 PROFESSIONALS.—The Director of the Na-

1 tional Science Foundation may award fel-
2 lowships to industry professionals to enable
3 recipients to seek short-term appointments
4 to instruct and educate students on the de-
5 sign, research, assessment, development,
6 deployment, integration, or application of
7 artificial intelligence.

8 “(iv) FELLOWSHIPS FOR SCHOOL
9 PROFESSIONALS.—The Director of the Na-
10 tional Science Foundation may award fel-
11 lowships to teachers, school counselors,
12 and other school professionals for profes-
13 sional development programs in order to
14 enable recipients to attain skills, training,
15 or education in partnership with industry
16 members on the teaching, use of, or appli-
17 cation of artificial intelligence in K–12 set-
18 tings.

19 “(v) AWARDS.—Awards made under
20 this subparagraph may be in the form of
21 an award that covers the cost of tuition,
22 education-related fees, a stipend, and pro-
23 fessional development funds for up to one
24 year. Such awards shall be paid directly to
25 the institution of higher education that ad-

1 ministers, or is affiliated with, the program
2 in which the fellowship recipient is partici-
3 pating.

4 “(F) NATIONAL SCIENCE FOUNDATION
5 OUTREACH CAMPAIGN.—The Director of the
6 National Science Foundation may carry out a
7 nationwide outreach campaign to industry as
8 well as students at elementary schools, sec-
9 ondary schools, career and technical education
10 schools, and institutions of higher education, or
11 through other higher education and professional
12 education programs, to increase awareness re-
13 garding National Science Foundation-funded
14 artificial intelligence education opportunities.

15 “(G) ELIGIBILITY.—To be eligible to re-
16 ceive a scholarship or fellowship under this
17 paragraph, an individual shall satisfy all of the
18 following:

19 “(i) Be a citizen, national, or lawful
20 permanent resident of the United States.

21 “(ii) Demonstrate a commitment to a
22 career in advancing the field of artificial
23 intelligence.

24 “(iii) Accept the terms of a fellowship
25 under this subparagraph.

1 “(H) REPORTS.—

2 “(i) IN GENERAL.—Not later than
3 seven years after the date of the enactment
4 of this subparagraph, the Director of the
5 National Science Foundation shall submit
6 to Congress, and make widely available to
7 the public, a report including any rec-
8 ommendations for legislative action that
9 could optimize the effectiveness of the
10 scholarships and fellowships under this
11 paragraph.

12 “(ii) REQUIREMENTS.—In preparing
13 the reports under clause (i), the Director
14 of the National Science Foundation may,
15 as practicable—

16 “(I) include an assessment of the
17 effectiveness of such scholarships and
18 fellowships in expanding apprentice-
19 ships, internships, and other applied
20 or experiential learning opportunities
21 offered by employers in conjunction
22 with community colleges or other in-
23 stitutions of higher education;

1 “(II) assess the number of stu-
2 dents who received such scholarships
3 and fellowship;

4 “(III) assess the percentage of
5 such students who successfully com-
6 plete their education programs and
7 who intend to enter the workforce;

8 “(IV) assess the percentage of
9 undergraduate, graduate, and
10 postdoctoral students who enter the
11 workforce in a field relating to such
12 scholarship or fellowship;

13 “(V) assess the impact on the
14 number of K–12 teachers, school
15 counselors, and other school profes-
16 sionals who received such scholarships
17 or fellowships; and

18 “(VI) include an assessment of
19 the effects such scholarships and fel-
20 lowships have on related fields.”.

21 **SEC. 3. COMMUNITY COLLEGE AND AREA CAREER AND**
22 **TECHNICAL EDUCATIONAL SCHOOL CENTERS**
23 **OF ARTIFICIAL INTELLIGENCE EXCELLENCE.**

24 (a) IN GENERAL.—Subparagraph (B) of section
25 5401 of the National Artificial Intelligence Initiative Act

1 of 2020 (15 U.S.C. 9451(e)(3); enacted as part of title
2 LIV of division E of the William M. (Mac) Thornberry
3 National Defense Authorization Act for Fiscal Year 2021
4 (Public Law 116–283)) is amended to read as follows:

5 “(B) CENTERS OF AI EXCELLENCE.—

6 “(i) DEFINITIONS.—In this subpara-
7 graph:

8 “(I) AREA CAREER AND TECH-
9 NICAL EDUCATION SCHOOL.—The
10 term ‘area career and technical edu-
11 cation school’ has the meaning given
12 such term in section 3 of the Carl D.
13 Perkins Career and Technical Edu-
14 cation Act of 2006 (20 U.S.C. 2302).

15 “(II) ELIGIBLE APPLICANT.—
16 The term ‘eligible applicant’ means a
17 community college, or area career and
18 technical education school, in partner-
19 ship with one or more of the fol-
20 lowing:

21 “(aa) A Federal, State,
22 local, Tribal, or territorial gov-
23 ernment entity.

24 “(bb) An institution of high-
25 er education.

1 “(cc) An entity in private in-
2 dustry.

3 “(dd) An economic develop-
4 ment organization or venture de-
5 velopment organization.

6 “(ee) A nonprofit organiza-
7 tion.

8 “(III) VENTURE DEVELOPMENT
9 ORGANIZATION.—The term ‘venture
10 development organization’ has the
11 meaning given such term in section
12 27(a) of the Stevenson-Wydler Tech-
13 nology Innovation Act of (15 U.S.C.
14 3722(a)).

15 “(ii) ESTABLISHMENT OF CENTERS
16 OF AI EXCELLENCE.—The Director of the
17 National Science Foundation, in coordina-
18 tion with the Regional Technology Hubs
19 program of the Department of Commerce,
20 subject to the availability of appropria-
21 tions, shall establish up to eight regionally
22 and geographically diverse eligible appli-
23 cants to be designated as Community Col-
24 lege and Area Career and Technical Edu-
25 cation Centers of AI Excellence (referred

1 to in this subparagraph as ‘Centers of AI
2 Excellence’). Such Centers of AI Excel-
3 lence shall enhance educational outcomes
4 and drive workforce development by inte-
5 grating artificial intelligence into teaching,
6 learning, and community engagement.

7 “(iii) APPLICATION.—An eligible ap-
8 plicant seeking to be designated as a Cen-
9 ter of AI Excellence under this subpara-
10 graph shall submit to the Director of the
11 National Science Foundation an applica-
12 tion at such time, in such manner, and
13 containing such information as the Direc-
14 tor may require. Such application shall in-
15 clude the following:

16 “(I) A description of the focus
17 area or areas for such proposed Cen-
18 ter of AI Excellence and how such
19 area or areas are aligned with re-
20 gional investments made by industry
21 and the Federal Government.

22 “(II) A description of the capac-
23 ity of the applicant to carry out the
24 purpose of such proposed Center of
25 AI Excellence.

1 “(III) A description of dem-
2 onstrate current and anticipated fu-
3 ture workforce demands in occupa-
4 tions directly related to such proposed
5 Center of AI Excellence.

6 “(IV) A description of how the
7 eligible applicant will support the col-
8 lection of information and data for
9 purposes of evaluation of such pro-
10 posed Center of AI Excellence.

11 “(V) An evaluation plan that in-
12 cludes the use of outcome-oriented
13 measures to assess the impact and ef-
14 ficacy of such proposed Center for AI
15 Excellence.

16 “(iv) ACTIVITIES.—A designated Cen-
17 ter of AI Excellence shall develop and dis-
18 seminate information regarding best prac-
19 tices for matters such as the following:

20 “(I) Artificial intelligence re-
21 search and education, and research on
22 the effects of artificial intelligence in
23 education, at community colleges and
24 area career and technical education
25 schools.

1 “(II) Methods to scale up suc-
2 cessful programs that perform re-
3 search or provide education on artifi-
4 cial intelligence at community colleges
5 and area career and technical edu-
6 cation schools.

7 “(III) Providing educators and
8 teachers with actionable strategies
9 and resources to effectively integrate
10 artificial intelligence into curriculums
11 in the classroom.

12 “(IV) Providing experiential
13 learning opportunities, including re-
14 search and industry experiences on ar-
15 tificial intelligence and learning oppor-
16 tunities for students that are enabled
17 through artificial intelligence.

18 “(V) Identifying pathways for
19 students to jobs that are enabled by
20 artificial intelligence, such as pre-
21 viously nonexistent jobs with respect
22 to which artificial intelligence use is
23 an integral part, jobs working directly
24 on artificial intelligence, and pre-
25 viously existing jobs with respect to

1 which needed skills have been signifi-
2 cantly changed due to working with
3 artificial intelligence.

4 “(VI) Facilitating partnerships
5 with employers, employer consortia, or
6 other private sector organizations that
7 offer apprenticeships, internships, co-
8 operative education, or applied learn-
9 ing experiences in the field of artificial
10 intelligence.

11 “(v) PARTNERSHIPS.—The Director
12 of the National Science Foundation shall
13 encourage applicants to consider including
14 or partnering with a nonprofit organiza-
15 tion, civil society organizations, industry,
16 or an institution of higher education (or a
17 consortium thereof) that has extensive ex-
18 perience and expertise in artificial intel-
19 ligence.

20 “(vii) EVALUATIONS.—All applications
21 for designation under clause (ii) shall in-
22 clude an evaluation plan that includes the
23 use of outcome-oriented measures to assess
24 the impact and efficacy of the proposed
25 Center for AI Excellence.

1 “(viii) ACCOUNTABILITY AND DIS-
2 SEMINATION.—

3 “(I) EVALUATION REQUIRED.—

4 The Director of the National Science
5 Foundation shall evaluate the activi-
6 ties under clause (iv). Such evalua-
7 tion, to the extent practicable, shall
8 integrate the findings of research re-
9 sulting from such activity or activities
10 as a result of a designation under
11 clause (ii) with the findings of other
12 research on artificial intelligence edu-
13 cation.

14 “(II) REPORT ON EVALUA-
15 TIONS.—Not later than 180 days
16 after the completion of the evaluation
17 under subclause (I), the Director of
18 the National Science Foundation shall
19 submit to Congress and make widely
20 available to the public a report that
21 includes the following:

22 “(aa) The results of such
23 evaluation.

24 “(bb) Any recommendations
25 for administrative and legislative

1 action that could optimize the ef-
2 fectiveness of the designations
3 made under clause (ii).”.

4 **SEC. 4. AWARDS FOR RESEARCH ON ARTIFICIAL INTEL-**
5 **LIGENCE IN EDUCATION.**

6 (a) IN GENERAL.—Section 5401 of the National Ar-
7 tificial Intelligence Initiative Act of 2020 (15 U.S.C. 9451;
8 enacted as part of title LIV of division E of the William
9 M. (Mac) Thornberry National Defense Authorization Act
10 for Fiscal Year 2021 (Public Law 116–283)) is amend-
11 ed—

12 (1) by redesignating subsection (g) as sub-
13 section (i); and

14 (2) by inserting after subsection (f) the fol-
15 lowing new subsections:

16 “(g) AWARDS FOR RESEARCH ON ARTIFICIAL INTEL-
17 LIGENCE IN EDUCATION.—

18 “(1) ELIGIBLE ENTITY DEFINED.—In this sub-
19 section, the term ‘eligible entity’ means any of the
20 following:

21 “(A) An institution of higher education.

22 “(B) A nonprofit organization.

23 “(C) A consortium of one or more institu-
24 tions of higher education or nonprofit organiza-
25 tions and one or more private sector entities.

1 “(2) AWARDS.—

2 “(A) IN GENERAL.—The Director of the
3 National Science Foundation may make
4 awards, on a competitive, merit-reviewed basis,
5 to eligible entities, to enable such eligible enti-
6 ties to promote research regarding teaching
7 models, tools, and materials for artificial intel-
8 ligence, its integration into the classroom,
9 teaching, and learning for pre-kindergarten
10 through grade 12 students, and its impacts on
11 educational and learning outcomes.

12 “(B) METHOD.—The Director of the Na-
13 tional Science Foundation may carry out sub-
14 paragraph (A) by making awards through new
15 or existing programs.

16 “(3) APPLICATION.—

17 “(A) IN GENERAL.—An eligible entity that
18 desires to receive an award under this sub-
19 section shall submit to the Director of the Na-
20 tional Science Foundation an application at
21 such time, in such manner, and containing such
22 information as the Director may require.

23 “(B) CONTENTS.—An application under
24 subparagraph (A) may include the following:

1 “(i) A description of any regional
2 partnerships the eligible entity plans to
3 utilize to carry out the award.

4 “(ii) With respect to an application
5 that concerns the use or integration of ar-
6 tificial intelligence, a description of poten-
7 tial ethical concerns and implications of
8 teacher, faculty, and student interactions
9 with artificial intelligence.

10 “(iii) A description of how proposed
11 research on teaching models, tools, and
12 materials were developed in consultation
13 with other educators, academia, industry,
14 government entities, or civil society organi-
15 zations.

16 “(iv) Such other information as the
17 Director may require.

18 “(4) USE OF AWARD FUNDS.—Awards de-
19 scribed in paragraph (2)(A) shall be used by the re-
20 cipient to carry out the following:

21 “(A) Emphasize preparing incoming K–12
22 teachers to integrate artificial intelligence into
23 their classrooms in beneficial and innovative
24 ways.

1 “(B) Support research to develop, pilot,
2 fully implement, or test topics, such as the fol-
3 lowing:

4 “(i) Instructional materials and high-
5 quality learning opportunities for teaching
6 artificial intelligence.

7 “(ii) Models for the preparation of
8 new teachers who will teach artificial intel-
9 ligence.

10 “(iii) Scalable models of professional
11 development and ongoing support for
12 teachers.

13 “(iv) Tools and models for teaching
14 and learning aimed at supporting student
15 success.

16 “(v) Evaluations of the effect of dif-
17 ferent approaches to teaching artificial in-
18 telligence on students’ educational and
19 learning outcomes.

20 “(5) PARTNERSHIPS.—In making awards under
21 this subsection, the Director of the National Science
22 Foundation shall carry out the following:

23 “(A) Encourage applicants which, for the
24 purpose of the proposed activity or activities
25 funded through such award, include or partner

1 with a nonprofit organization or an institution
2 of higher education (or a consortium thereof)
3 that has extensive experience and expertise in
4 integrating artificial intelligence into K–12
5 classrooms.

6 “(B) Encourage applicants which, for the
7 purpose of such proposed activity or activities
8 funded through such award, include or partner
9 with a consortium of schools, institutions of
10 higher education, school districts, non-profit or-
11 ganizations, or other State and local govern-
12 ment entities.

13 “(C) Encourage applicants which, for the
14 purpose of such proposed activity or activities
15 funded through such award, include commit-
16 ments from school principals, other school lead-
17 ers, or administrators to make a priority re-
18 forms and activities proposed by the applicant.

19 “(h) ARTIFICIAL INTELLIGENCE COLLABORATIVE.—

20 “(1) IN GENERAL.—The Director of the Na-
21 tional Science Foundation may establish a pilot pro-
22 gram of regional cohorts that will provide peer sup-
23 port, mentoring, and hands-on research experiences
24 for educators, principals, and other school leaders of
25 students in kindergarten through grade 12, in order

1 to build a network allowing educators, principals,
2 other school leaders to carry out the following:

3 “(A) Engage with one another on edu-
4 cational efforts related to teaching and using
5 artificial intelligence and evaluating its effects
6 on students’ educational and learning outcomes.

7 “(B) Interact with researchers, academia,
8 and local industry involved in artificial intel-
9 ligence.

10 “(2) METHOD.—The Director of the National
11 Science Foundation may carry out this subsection by
12 making awards through new or existing programs,
13 including the pilot program authorized under section
14 10511(a)(2)(B) of the Research and Development,
15 Competition, and Innovation Act (42 U.S.C. 19172;
16 enacted as part of title V of division B of Public
17 Law 117–167).”.