

119TH CONGRESS
2D SESSION

H. R. 9334

To amend the National Artificial Intelligence Initiative Act of 2020 to facilitate the growth of multidisciplinary teams that can advance the development and training of safe and trustworthy artificial intelligence systems, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 18, 2026

Ms. LOFGREN (for herself and Mr. LUCAS) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To amend the National Artificial Intelligence Initiative Act of 2020 to facilitate the growth of multidisciplinary teams that can advance the development and training of safe and trustworthy artificial intelligence systems, 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 “Workforce for AI Trust
5 Act”.

1 **SEC. 2. NSF ARTIFICIAL INTELLIGENCE RESEARCH AND**
2 **EDUCATION; NIST ARTIFICIAL INTELLIGENCE**
3 **GOVERNANCE WORKFORCE.**

4 (a) DEFINITION.—Section 5002 of the National Arti-
5 ficial Intelligence Initiative Act of 2020 (15 U.S.C. 9401;
6 enacted as part of title LIV of division E of the William
7 M. (Mac) Thornberry National Defense Authorization Act
8 for Fiscal Year 2021 (Public Law 116–283)) is amended
9 by adding at the end the following new paragraph:

10 “(12) NATIONAL LABORATORY.—The term ‘Na-
11 tional Laboratory’ has the meaning given such term
12 in section 2 of the Energy Policy Act of 2005 (42
13 U.S.C. 15801).”.

14 (b) FELLOWSHIPS.—Subsection (e) of section 5401
15 of the National Artificial Intelligence Initiative Act of
16 2020 (15 U.S.C. 9451) is amended—

17 (1) in paragraph (2)—

18 (A) in the heading, by striking “FAC-
19 ULTY”; and

20 (B) by adding at the end the following new
21 subparagraph:

22 “(D) INTERDISCIPLINARY ARTIFICIAL IN-
23 TELLIGENCE FELLOWSHIPS.—

24 “(i) IN GENERAL.—The Director of
25 the National Science Foundation may sup-
26 port graduate and postdoctoral research

1 fellowships for students and postdoctoral
2 researchers from across disciplines, includ-
3 ing social science disciplines and the hu-
4 manities, by making awards through eligi-
5 ble institutions of higher education for re-
6 search and related activities related to the
7 trustworthy design, development, training,
8 deployment, evaluation, and understanding
9 of artificial intelligence.

10 “(ii) USE OF AWARDS.—An institu-
11 tion of higher education that receives an
12 award under clause (i) to support graduate
13 and postdoctoral research fellowships for
14 students and postdoctoral researchers de-
15 scribed in such clause shall use such award
16 for any of the following, as the case may
17 be:

18 “(I) For graduate fellowships,
19 tuition, education-related fees, and
20 stipends for up to three academic
21 years.

22 “(II) For postdoctoral fellow-
23 ships, salaries, benefits, relocation
24 costs, related conference travels, and

1 research expenses for up to three
2 years.

3 “(III) Such other expenses as the
4 Director of the National Science
5 Foundation determines appropriate.

6 “(iii) ELIGIBILITY.—To be eligible to
7 receive an award under clause (i) to sup-
8 port graduate and postdoctoral research
9 fellowships for students and postdoctoral
10 researchers described in such clause, an in-
11 stitution of higher education applying for
12 such an award shall ensure such students
13 and postdoctoral researchers satisfy the
14 following:

15 “(I) Are citizens, nationals, or
16 lawful permanent residents of the
17 United States.

18 “(II) Demonstrate a commitment
19 to a career in research into fields and
20 research areas that will contribute to
21 the development and deployment of
22 trustworthy artificial intelligence sys-
23 tems, including in areas of security,
24 safety, reliability, or other aspects of
25 artificial intelligence trustworthiness

1 as established by the National Insti-
2 tute of Standards and Technology
3 pursuant to section 22A of the Na-
4 tional Institute of Standards and
5 Technology Act (15 U.S.C. 278h-1).

6 “(III) For graduate fellowships,
7 are—

8 “(aa) full-time students in
9 an eligible program at the insti-
10 tution of higher education, as de-
11 termined by the Director of the
12 National Science Foundation; or

13 “(bb) students pursuing a
14 degree on a less than full-time
15 basis, but not less than half-time
16 basis, in an eligible program at
17 the institution of higher edu-
18 cation, as determined by the Di-
19 rector.

20 “(IV) For postdoctoral fellow-
21 ships, have a doctoral degree in an eli-
22 gible program, as determined by the
23 Director, have received such degree
24 not earlier than five years before the
25 date that such fellowship begins, and

1 have a postdoctoral appointment at a
2 host institution.

3 “(iv) APPLICATION.—An institution of
4 higher education that seeks an award
5 under clause (i) shall submit to the Direc-
6 tor of the National Science Foundation an
7 application at such time, in such manner,
8 and containing such information as the Di-
9 rector may require. At a minimum, the Di-
10 rector shall require such an application to
11 include a description of the following:

12 “(I) How the proposed research
13 and activities are designed to con-
14 tribute to the development and deploy-
15 ment of trustworthy artificial intel-
16 ligence systems, including ways to de-
17 sign, train, evaluate, and understand
18 such systems.

19 “(II) How the students and
20 postdoctoral researchers described in
21 clause (i) who are the subject of such
22 application will be integrated with ar-
23 tificial intelligence researchers at such
24 institution in a role consistent with

1 being a member of an interdisciplinary
2 nary or transdisciplinary team.

3 “(III) How such institution plans
4 to disseminate to the broader artificial
5 intelligence systems research commu-
6 nity any research findings, learned
7 best practices, or technical solutions
8 that are the outcome of such an
9 award.

10 “(vi) ADMINISTRATIVE AGREE-
11 MENTS.—Fellowships supported by an
12 award under clause (i) may include tem-
13 porary artificial intelligence-related posi-
14 tions at Federal or State agencies, Na-
15 tional Laboratories, private sector entities,
16 institutions of higher education, the Insti-
17 tute, or other artificial intelligence relevant
18 entities, as determined appropriate by the
19 Director of the National Science Founda-
20 tion.”; and

21 (2) by adding at the end the following new
22 paragraph:

23 “(4) ARTIFICIAL INTELLIGENCE SKILLS-BASED
24 TRAINING ACROSS THE NATIONAL SCIENCE FOUNDA-
25 TION.—The Director of the National Science Foun-

1 dation shall seek to encourage the application of ar-
2 tificial intelligence systems to accelerate scientific
3 discovery and technology development across all
4 fields of STEM supported by the Foundation, in-
5 cluding by supporting the following:

6 “(A) Training for undergraduate and grad-
7 uate students and postdoctoral researchers
8 through existing technical and skills-based
9 training or certification programs, and, as ap-
10 propriate, by providing for additional experien-
11 tial learning experiences.

12 “(B) Development and hosting of intra or
13 inter-institutional workshops on the application
14 of trustworthy artificial intelligence systems to
15 new uses in research, development, demonstra-
16 tion, testing, dissemination, and evaluation.

17 “(C) Administrative and award supple-
18 ments to existing research awards to support
19 professional development experiences for grad-
20 uate students and postdoctoral researchers who
21 receive a substantial portion of the support of
22 such students and researchers in connection
23 with such research awards to learn how to
24 apply artificial intelligence systems to the re-

1 search of such students and researchers, as de-
2 termined by the Director.”.

3 (c) WORKSHOPS.—Subsection (d) of section 5401 of
4 the National Artificial Intelligence Initiative Act of 2020
5 (15 U.S.C. 9451) is amended by adding at the end the
6 following new paragraph:

7 “(3) WORKSHOPS.—The Director of the Na-
8 tional Science Foundation may make awards for the
9 development and hosting of intra- or inter-institu-
10 tional workshops to facilitate the growth of multi-
11 disciplinary teams that can advance the development
12 and training of trustworthy artificial intelligence sys-
13 tems.”.

14 (d) PEER REVIEW PANELS.—Section 5401 of the
15 National Artificial Intelligence Initiative Act of 2020 (15
16 U.S.C. 9451) is amended—

17 (1) by redesignating subsection (g) as sub-
18 section (h); and

19 (2) by inserting after subsection (f) the fol-
20 lowing new subsection:

21 “(g) PEER REVIEW PANELS.—As practicable and ap-
22 propriate, the Director of the National Science Founda-
23 tion shall ensure any merit review panel convened to evalu-
24 ate a proposal related to artificial intelligence systems re-
25 search and related activities integrates perspectives from

1 multiple and diverse research disciplines, including re-
2 searchers from social science, technology ethics, normative
3 ethics, legal, and linguistic disciplines.”.

4 **SEC. 3. NIST ACTIVITIES TO DESCRIBE AND SUPPORT THE**
5 **ARTIFICIAL INTELLIGENCE WORKFORCE.**

6 (a) AUTHORITIES TO SUPPORT WORKFORCE FRAME-
7 WORKS.—Subsection (b) of section 2 of the National Insti-
8 tute of Standards and Technology Act (15 U.S.C. 272)
9 is amended—

10 (1) in paragraph (12), by striking “and” after
11 the semicolon;

12 (2) in paragraph (13), by striking the period at
13 the end and inserting “; and”; and

14 (3) by adding at the end the following new
15 paragraph:

16 “(14) to provide industry, government, and re-
17 search, nonprofit, and educational institutions with
18 workforce frameworks for critical and emerging
19 technologies and other science, technology, engineer-
20 ing, and mathematics domains for the purpose of
21 bolstering scientific and technical education, train-
22 ing, and workforce development.”.

23 (b) NIST ACTIVITIES TO SUPPORT THE ARTIFICIAL
24 INTELLIGENCE GOVERNANCE WORKFORCE.—Section 22A

1 of the National Institute of Standards and Technology Act
2 (15 U.S.C. 278h–1) is amended—

3 (1) in subsection (b)—

4 (A) by redesignating paragraphs (3)
5 through (5) as paragraphs (4) through (6), re-
6 spectively; and

7 (B) by inserting after paragraph (2) the
8 following new paragraph:

9 “(3) support education and workforce develop-
10 ment activities to expand the artificial intelligence
11 workforce, including careers related to helping orga-
12 nizations govern, map, measure, and manage artifi-
13 cial intelligence related risk, including testing, eval-
14 uation, verification, and validation of artificial intel-
15 ligence;”; and

16 (2) by adding at the end the following new sub-
17 section:

18 “(i) DEFINITION.—In this section, the term ‘artificial
19 intelligence’ has the meaning given such term in section
20 5002 of the National Artificial Intelligence Initiative Act
21 of 2020 (15 U.S.C. 9401).”.

22 (c) ARTIFICIAL INTELLIGENCE WORKFORCE FRAME-
23 WORK.—

24 (1) IN GENERAL.—Title LIII of the National
25 Artificial Intelligence Initiative Act of 2020 (15

1 U.S.C. 9441 et seq.) is amended by adding at the
2 end the following new section:

3 **“SEC. 5304. NIST ACTIVITIES TO CATEGORIZE THE ARTIFI-**
4 **CIAL INTELLIGENCE WORKFORCE.**

5 “(a) IN GENERAL.—The Director of the National In-
6 stitute of Standards and Technology, in consultation with
7 the Secretary of Labor, the Director of the National
8 Science Foundation, the Director of the Office of Per-
9 sonnel Management, and the heads of other Federal de-
10 partments and agencies, as appropriate, shall develop fun-
11 damental reference resources for describing and sharing
12 information regarding work related to artificial intel-
13 ligence to address workforce gaps.

14 “(b) ACTIVITIES.—

15 “(1) IN GENERAL.—In carrying out subsection
16 (a), the Director of the National Institute of Stand-
17 ards and Technology shall carry out the following:

18 “(A) Develop and periodically update an
19 artificial intelligence workforce framework,
20 which shall include the following components:

21 “(i) A common, consistent lexicon to
22 describe artificial intelligence employment-
23 related activities by work role, competency
24 area, or other categorization, as appro-
25 priate.

1 “(ii) A description of the tasks,
2 knowledge, or skills that are needed to per-
3 form artificial intelligence work.

4 “(B) Support interoperability and avoid
5 unnecessary duplication of the such components
6 of such framework with components in other
7 workforce frameworks, including the National
8 Initiative for Cybersecurity Education Cyberse-
9 curity Workforce Framework or successor
10 framework.

11 “(C) Develop guidelines regarding how to
12 use the artificial intelligence workforce frame-
13 work under subparagraph (A) for different as-
14 pects of workforce development, education, and
15 training purposes.

16 “(D) Support external use of such frame-
17 work, including relating to the following:

18 “(i) The development of technical
19 guidelines and best practices related to the
20 artificial intelligence workforce, or dissemi-
21 nation of existing related guidelines, as ap-
22 propriate.

23 “(ii) Outreach and dissemination to
24 artificial intelligence programs at all edu-
25 cation levels of such framework to prepare

1 and improve a skilled artificial intelligence
2 workforce for the public and private sec-
3 tors.

4 “(2) STAKEHOLDER INPUT.—In carrying out
5 this subsection, the Director of the National Insti-
6 tute of Standards and Technology shall seek input
7 from the following:

8 “(A) Federal departments and agencies.

9 “(B) State, local, Tribal, and territorial
10 governments.

11 “(C) Industry.

12 “(D) Institutions of higher education.

13 “(E) National Laboratories.

14 “(F) Labor organizations.

15 “(G) Non-profit organizations.

16 “(c) SUPPORTING EFFORTS TO IDENTIFY AND AD-
17 DRESS FEDERAL ARTIFICIAL INTELLIGENCE WORKFORCE
18 GAPS.—The Director of the National Institute of Stand-
19 ards and Technology shall use the artificial intelligence
20 workforce framework under subsection (b)(1)(A) to pro-
21 vide technical assistance to the following:

22 “(1) The Director of the National Science
23 Foundation, in developing criteria to designate quali-
24 fied institutions of higher education for the Federal
25 AI Scholarship-for-Service Program under section

1 10313(d) of the Research and Development, Com-
2 petition, and Innovation Act (42 U.S.C. 18993(d)).

3 “(2) The Director of the Office of Personnel
4 Management, to align the appropriate roles, knowl-
5 edge, skills, abilities, and tasks specified in such
6 framework with the activities described in section
7 105 of the AI in Government Act (title I of division
8 U of the Consolidated Appropriations Act, 2021
9 (Public Law 116–260)).

10 “(d) PUBLICATION.—Not later than one year after
11 the development of the artificial intelligence workforce
12 framework under subsection (b)(1)(A), the Director of the
13 National Institute of Standards and Technology shall sub-
14 mit to the Committee on Science, Space, and Technology
15 of the House of Representatives and the Committee on
16 Commerce, Science, and Transportation of the Senate
17 such framework and make such framework publicly avail-
18 able on the website of the National Institute of Standards
19 and Technology.

20 “(e) DEFINITIONS.—In this section:

21 “(1) ARTIFICIAL INTELLIGENCE SYSTEM.—The
22 term ‘artificial intelligence system’ means any data
23 system, software, hardware, application, tool, service,
24 or utility that operates in whole or in part using ar-
25 tificial intelligence.

1 “(2) LABOR ORGANIZATION.—The term ‘labor
2 organization’ has the meaning given such term in
3 section 2(5) of the National Labor Relations Act (29
4 U.S.C. 152(5)), except that such term shall also in-
5 clude the following:

6 “(A) Any organization composed of labor
7 organizations, such as a labor union federation
8 or a State or municipal labor body.

9 “(B) Any organization which would be in-
10 cluded in the definition for such term under
11 such section, but for the fact that the organiza-
12 tion represents individuals—

13 “(i) employed by the United States,
14 any wholly owned Government corporation,
15 any Federal Reserve Bank, or any State or
16 political subdivision thereof;

17 “(ii) employed by persons subject to
18 the Railway Labor Act (45 U.S.C. 151 et
19 seq.); or

20 “(iii) employed as agricultural labor-
21 ers.

22 “(3) NON-PROFIT ORGANIZATION.—The term
23 ‘non-profit organization’ means an organization de-
24 scribed in section 501(c)(3) of the Internal Revenue

1 Code of 1986 and exempt from tax under section
2 501(a) of such Code.

3 “(4) TECHNICAL STANDARD.—The term ‘tech-
4 nical standard’ has the meaning given such term in
5 section 12(d)(5) of the National Technology Trans-
6 fer and Advancement Act of 1995 (15 U.S.C. 272
7 note).

8 “(5) WORKFORCE FRAMEWORK.—The term
9 ‘workforce framework’ means a common taxonomy
10 and lexicon for any given domain that includes the
11 building blocks of tasks, knowledge, or skills that
12 can be structured to form work roles or competency
13 areas.”.

14 (2) CLERICAL AMENDMENTS.—The tables of
15 contents in section 2(b) and title LIII of division E
16 of the William M. (Mac) Thornberry National De-
17 fense Authorization Act for Fiscal Year 2021 are
18 amended by inserting after the item relating to sec-
19 tion 5303 the following new item: “Sec. 5304. NIST
20 activities to categorize the artificial intelligence
21 workforce.”.

○