

119TH CONGRESS
2^D SESSION

H. R. 9341

To require the Director of the National Institute of Standards and Technology to develop guidelines to assist agencies with preparing open Government data assets to be used to train artificial intelligence models, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 18, 2026

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

A BILL

To require the Director of the National Institute of Standards and Technology to develop guidelines to assist agencies with preparing open Government data assets to be used to train artificial intelligence models, 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 “AI-Ready Federal
5 Data Guidelines Act”.

1 **SEC. 2. AI-READY DATA GUIDELINES FOR FEDERAL AGEN-**
2 **CIES.**

3 (a) IN GENERAL.—The National Institute of Stand-
4 ards and Technology Act is amended by inserting after
5 section 21 (15 U.S.C. 278g-4) the following new section:

6 **“SEC. 21A. AI-READY DATA GUIDELINES FOR FEDERAL**
7 **AGENCIES.**

8 “(a) DEVELOPMENT OF GUIDELINES.—

9 “(1) IN GENERAL.—The Director, in consulta-
10 tion with the Director of the Office of Science and
11 Technology Policy, the Secretary of Energy, the Di-
12 rector of the Office of Management and Budget, and
13 the head of any other Federal agency the Director
14 considers appropriate, shall develop voluntary guide-
15 lines to assist agencies with preparing datasets, in-
16 cluding open Government data assets, to be used to
17 train artificial intelligence models.

18 “(2) ELEMENTS.—In developing the guidelines
19 under paragraph (1) the Director shall carry out the
20 following:

21 “(A) Address, to the extent practicable, the
22 following:

23 “(i) Data formatting and structure,
24 including guidelines to ensure datasets are
25 interpretable by artificial intelligence sys-
26 tems.

1 “(ii) Data labeling and annotation, in-
2 cluding scalable methods such as pro-
3 grammatic, automated, and expert-guided
4 approaches for preparing data for use in
5 artificial intelligence development.

6 “(iii) Data quality evaluation, includ-
7 ing guidelines to assess the suitability of
8 datasets for use in artificial intelligence
9 systems.

10 “(iv) Metadata and documentation,
11 including information sufficient to enable
12 appropriate interpretation and use of
13 datasets for artificial intelligence develop-
14 ment.

15 “(v) Data maintenance, including
16 guidance for the ongoing management and
17 updating of datasets to ensure continued
18 suitability for use in artificial intelligence
19 systems.

20 “(vi) Data availability, including
21 guidelines for improving and expanding
22 automated access to publicly available in-
23 formation for artificial intelligence model
24 development and use.

1 “(B) Enable flexible implementation, to
2 the extent practicable, for various use cases
3 across sectors and scientific domains.

4 “(C) Ensure, to the extent practicable,
5 consistency with Circular A–119 of the Office
6 of Management and Budget.

7 “(D) Conformity assessment procedures, to
8 the extent practicable.

9 “(b) PILOT PROGRAMS FOR AI-READY DATA GUIDE-
10 LINES.—

11 “(1) IN GENERAL.—The Director, in coordina-
12 tion with the Director of the Office of Science and
13 Technology Policy, the Secretary of Energy, and the
14 head of any other Federal agency the Director deter-
15 mines appropriate, may carry out pilot programs to
16 support the development of conformity assessment
17 procedures for AI-ready datasets used in specific
18 sectors and scientific domains.

19 “(2) REQUIREMENTS.—If pilot programs under
20 this subsection are carried out, such programs
21 shall—

22 “(A) not exceed one year in duration;

23 “(B) develop supplemental guidelines for
24 AI-ready datasets used in specific sectors and

1 scientific domains in accordance with the guide-
2 lines published under subsection (a);

3 “(C) assess the impact of such guidelines
4 on data usability, interoperability, and readi-
5 ness for use in artificial intelligence systems in
6 specific sectors and scientific or domains;

7 “(D) identify technical, operational, or re-
8 source challenges associated with future imple-
9 mentation and maintenance of such guidelines
10 in specific sectors and scientific domains; and

11 “(E) develop, as practicable and appro-
12 priate, a process and materials for the transi-
13 tion to an appropriate non-Federal entity of
14 such guidelines for future implementation of
15 and updates to such guidelines.

16 “(3) SELECTION OF TOPICS.—If pilot programs
17 under this subsection are carried out, such programs
18 shall prioritize areas—

19 “(A) with significant national security and
20 industrial competitiveness implications, such as
21 biotechnology and biomanufacturing; and

22 “(B) with respect to which Federal agen-
23 cies control and maintain AI-ready datasets.

24 “(3) PARTICIPATION.—If pilot programs under
25 this subsection are carried out, the Director shall

1 carry out not more than two concurrent such pro-
2 grams through federally funded research programs,
3 National Laboratories, institutions of higher edu-
4 cation, or partnerships with the private sector.

5 “(c) CONGRESSIONAL BRIEFINGS.—Not later than
6 one year after the publication of the guidelines under sub-
7 section (a) and annually thereafter for five years, the Di-
8 rector shall brief the Committee on Science, Space, and
9 Technology of the House of Representatives and the Com-
10 mittee on Commerce, Science, and Transportation of the
11 Senate on the implementation of this section.

12 “(d) PROHIBITION.—The Director may not transfer
13 or reprogram any funds from any other program, project,
14 office, or other entity or activity of the Institute to carry
15 out this section.

16 “(e) DEFINITIONS.—In this section:

17 “(1) AGENCY.—The term ‘agency’ has the
18 meaning given such term in section 3502 of title 44,
19 United States Code.

20 “(2) ARTIFICIAL INTELLIGENCE.—The term
21 ‘artificial intelligence’ has the meaning given such
22 term in section 5002 of the National Artificial Intel-
23 ligence Initiative Act of 2020 (15 U.S.C. 9401).

1 “(3) ARTIFICIAL INTELLIGENCE MODEL.—The
2 term ‘artificial intelligence model’ means a compo-
3 nent of an artificial intelligence system that is—

4 “(A) derived using mathematical, computa-
5 tional, statistical, or machine-learning tech-
6 niques; and

7 “(B) used as part of an artificial intel-
8 ligence system to produce outputs from a given
9 set of inputs.

10 “(4) ARTIFICIAL INTELLIGENCE SYSTEM.—The
11 term ‘artificial intelligence system’ means any data
12 system, software, hardware, application, tool, service,
13 or utility that operates in whole or in part using ar-
14 tificial intelligence.

15 “(5) BIOMANUFACTURING.—The term ‘bio-
16 manufacturing’ has the meaning given such term in
17 section 10002 of the Research and Development,
18 Competition, and Innovation Act (42 U.S.C. 18901;
19 popularly referred to as the ‘CHIPS and Science
20 Act’).

21 “(6) CONFORMITY ASSESSMENT PROCEDURE.—
22 The term ‘conformity assessment procedure’ has the
23 meaning given such term in section 451 of the
24 Trade Agreements Act of 1979 (19 U.S.C. 2571).

1 “(7) DIRECTOR.—The term ‘Director’ means
2 the Director of the National Institute of Standards
3 and Technology.

4 “(8) INSTITUTION OF HIGHER EDUCATION.—
5 The term ‘institution of higher education’ has the
6 meaning given such term in section 101 of the High-
7 er Education Act of 1965 (20 U.S.C. 1001).

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

12 “(10) OPEN GOVERNMENT DATA ASSET.—The
13 term ‘open Government data asset’ has the meaning
14 given such term in section 3502 of title 44, United
15 States Code.”.

16 (b) CONFORMING AMENDMENT.—Subsection (f) of
17 section 22A of the National Institute of Standards and
18 Technology Act (15 U.S.C. 278h-1) is repealed.

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