115TH CONGRESS
2D SESSION

H. R. 4829

To promote a 21st century artificial intelligence workforce.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 18, 2018

Mr. SOTO (for himself, Mr. KRISHNAMOORTHI, Mr. FERGUSON, Mrs. DIN-
GELL, Mr. MITCHELL, Mr. TAKANO, Mr. NORMAN, Ms. BLUNT ROCH-
ESTER, Mr. GALLAGHER, Mrs. COMSTOCK, Mr. SCOTT of Virginia, and
Mr. COURTNEY) introduced the following bill; which was referred to the
Committee on Education and the Workforce

A BILL

To promote a 21st century artificial intelligence workforce.

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 "Artificial Intelligence

5   Job Opportunities and Background Summary Act of

6   2018" or the "AI JOBS Act of 2018".

7   **SEC. 2. SENSE OF CONGRESS.**

8   It is the sense of Congress that technology can im-

9   prove the lives of individuals, but can also disrupt jobs,

10   and for this reason, innovation should be encouraged while

1 training and retraining American workers for our 21st

2 century economy.

SEC. 3. REPORT ON ARTIFICIAL INTELLIGENCE.

4   (a) REPORT REQUIREMENTS.—Not later than 1 year

5 after the date of the enactment of this Act, the Secretary

6 of Labor, in collaboration with the individuals and entities

7 described in subsection (b), shall prepare and submit to

8 the Committee on Education and the Workforce of the

9 House of Representatives and the Committee on Health,

10 Education, Labor, and Pensions of the Senate, a report

11 on artificial intelligence and its impact on the workforce,

12 which shall include the following:

13   (1) Outline the specific data, and the avail-

14   ability of such data, necessary to properly analyze

15   the impact and growth of artificial intelligence.

16   (2) Identification of industries that are pro-

17   jected to have the most growth in artificial intel-

18   ligence use, and whether the technology will result in

19   the enhancement of workers' capabilities or their re-

20   placement.

21   (3) Analysis of the expertise and education (in-

22   cluding computer science literacy) needed to develop,

23   operate, or work alongside artificial intelligence over

24   the next two decades, as compared to the levels of

1 such expertise and education among the workforce

2 as of the date of enactment of this Act.

3 (4) Analysis of which demographics (including

4 ethnic, gender, economic, age, and regional) may ex-

5 perience expanded career opportunities, and which

6 such demographics may be vulnerable to career dis-

7 placement, due to artificial intelligence.

8 (5) Any recommendations to alleviate workforce

9 displacement, prepare future workforce members for

10 the artificial-intelligence economy, and any other rel-

11 evant observations or recommendations within the

12 field of artificial intelligence.

13 (b) COLLABORATION.—In preparing the report under

14 subsection (a), the Secretary of Labor shall collaborate,

15 through a series of public meetings, roundtables or other

16 methods, with—

17 (1) local educational agencies, institutions of

18 higher education (including community colleges),

19 workforce-training organizations, and National Lab-

20 oratories;

21 (2) a broad range of industrial stakeholders in

22 the technology and manufacturing sectors, including

23 companies (large and small), think tanks, and indus-

24 try organizations; and

1 (3) the Secretary of Commerce, the Director of
2 the Bureau of the Census, and the heads of any
3 other Federal agency the Secretary of Labor deter-
4 mines appropriate.

5 **SEC. 4. DEFINITIONS.**

6 In this Act:

7 (1) ARTIFICIAL INTELLIGENCE.—The term "ar-
8 tificial intelligence" means systems that—

9 (A) think like humans (including cognitive
10 architectures and neural networks);

11 (B) act like humans (such as passing the
12 Turing test using natural language processing,
13 knowledge representation, automated reasoning,
14 and learning);

15 (C) think rationally (such as logic solvers,
16 inference, and optimization);

17 (D) act rationally (such as intelligent soft-
18 ware agents and embodied robots that achieve
19 goals via perception, planning, reasoning, learn-
20 ing, communicating, decision-making, and act-
21 ing); or

22 (E) automate or replicate intelligent behav-
23 ior.

24 (2) COMMUNITY COLLEGE.—The term "commu-
25 nity college" has the meaning given the term "junior

1 or community college'' in section 312(f) of the High-
2 er Education Act of 1965 (20 U.S.C. 1058(f)).

3   (3) INSTITUTION OF HIGHER EDUCATION.—The
4 term ''institution of higher education'' has the
5 meaning given the term in section 102 of the Higher
6 Education Act of 1965 (20 U.S.C. 1002).

7   (4) LOCAL EDUCATIONAL AGENCY.—The term
8 ''local educational agency'' has the meaning given
9 the term in section 8101 of the Elementary and Sec-
10 ondary Education Act of 1965 (20 U.S.C. 7801).

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