

.....  
(Original Signature of Member)

115TH CONGRESS  
2D SESSION

# H. R.

To promote a 21st Century artificial intelligence workforce.

---

## IN THE HOUSE OF REPRESENTATIVES

Mr. SOTO introduced the following bill; which was referred to the Committee  
on \_\_\_\_\_

---

# 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 re-training American workers for our 21st  
2 century economy.

3 **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) that act rationally (such as intelligent  
18                  software agents and embodied robots that  
19                  achieve goals via perception, planning, rea-  
20                  soning, learning, communicating, decision-mak-  
21                  ing, and acting).

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 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).