

[115H4829]

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(Original Signature of Member)

116TH CONGRESS
1ST 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 2019” or the “AI JOBS Act of 2019”.

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.

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 Labor of the House of
9 Representatives and the Committee on Health, Education,
10 Labor, and Pensions of the Senate, a report on artificial
11 intelligence and its impact on the workforce, which shall
12 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, manufacturing, and service sectors,
23 including companies (large and small), think tanks,
24 and industry organizations; and

1 (3) the Secretary of Commerce and the heads
2 of any other Federal agency the Secretary of Labor
3 determines appropriate.

4 **SEC. 4. DEFINITIONS.**

5 In this Act:

6 (1) ARTIFICIAL INTELLIGENCE.—The term “ar-
7 tificial intelligence” means systems that—

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

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

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

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

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

23 (2) COMMUNITY COLLEGE.—The term “commu-
24 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).