

AMENDMENT

OFFERED BY M____.

At the appropriate place, insert the following:

1 **SEC. ____.** **ENERGY AND MANUFACTURING WORKFORCE DE-**
2 **VELOPMENT.**

3 (a) IN GENERAL.—The Secretary of Energy (in this
4 section referred to as the “Secretary”) shall prioritize edu-
5 cation and training for energy and manufacturing-related
6 jobs in order to increase the number of skilled workers
7 trained to work in energy and manufacturing-related fields
8 when considering awards for existing grant programs, in-
9 cluding by carrying out the following:

10 (1) Encouraging State education agencies and
11 local educational agencies to equip students with the
12 skills, mentorships, training, and technical expertise
13 necessary to fill the employment opportunities vital
14 to managing and operating the Nation’s energy and
15 manufacturing industries, in collaboration with rep-
16 resentatives from the energy and manufacturing in-
17 dustries (including the oil, gas, coal, nuclear, utility,
18 pipeline, renewable, petrochemical, manufacturing,
19 and electrical construction sectors) to identify the
20 areas of highest need in each sector and the skills

1 necessary for a high-quality workforce in the fol-
2 lowing sectors of energy and manufacturing:

3 (A) The energy efficiency industry, includ-
4 ing work in energy efficiency, conservation,
5 weatherization, or retrofitting, or as inspectors
6 or auditors.

7 (B) The pipeline industry, including work
8 in pipeline construction and maintenance or
9 work as engineers or technical advisors.

10 (C) The utility industry, including work in
11 the generation, transmission, and distribution
12 of electricity and natural gas, such as utility
13 technicians, operators, lineworkers, engineers,
14 scientists, and information technology special-
15 ists.

16 (D) The nuclear industry, including work
17 as scientists, engineers, technicians, mathemati-
18 cians, or security personnel.

19 (E) The oil and gas industry, including
20 work as scientists, engineers, technicians, math-
21 ematicians, petrochemical engineers, or geolo-
22 gists.

23 (F) The renewable industry, including
24 work in the development, manufacturing, and

1 production of renewable energy sources (such as
2 solar, hydropower, wind, or geothermal energy).

3 (G) The coal industry, including work as
4 coal miners, engineers, developers and manufac-
5 turers of state-of-the-art coal facilities, tech-
6 nology vendors, coal transportation workers and
7 operators, or mining equipment vendors.

8 (H) The manufacturing industry, including
9 work as operations technicians, operations and
10 design in additive manufacturing, 3-D printing,
11 advanced composites, and advanced aluminum
12 and other metal alloys, industrial energy effi-
13 ciency management systems, including power
14 electronics, and other innovative technologies.

15 (I) The chemical manufacturing industry,
16 including work in construction (such as welders,
17 pipefitters, and tool and die makers) or as in-
18 strument and electrical technicians, machinists,
19 chemical process operators, chemical engineers,
20 quality and safety professionals, and reliability
21 engineers.

22 (2) Strengthening and more fully engaging De-
23 partment of Energy programs and labs in carrying
24 out the Department's workforce development initia-
25 tives, including the Minorities in Energy Initiative.

1 (b) PROHIBITION.—Nothing in this section may be
2 construed to authorize the Secretary or any other officer
3 or employee of the Federal Government to incentivize, re-
4 quire, or coerce a State, school district, or school to adopt
5 curricula aligned to the skills described in subsection (a).

6 (c) PRIORITY.—The Secretary shall prioritize the
7 education and training of underrepresented groups in en-
8 ergy and manufacturing-related jobs.

9 (d) CLEARINGHOUSE.—In carrying out this section,
10 the Secretary shall establish a clearinghouse to—

11 (1) maintain and update information and re-
12 sources on training and workforce development pro-
13 grams for energy and manufacturing-related jobs,
14 including job training and workforce development
15 programs available to assist displaced and unem-
16 ployed energy and manufacturing workers
17 transitioning to new employment; and

18 (2) provide technical assistance for States, local
19 educational agencies, schools, community colleges,
20 universities (including minority-serving institutions),
21 workforce development programs, labor-management
22 organizations, and industry organizations that would
23 like to develop and implement energy and manufac-
24 turing-related training programs.

1 (e) COLLABORATION.—In carrying out this section,
2 the Secretary shall—

3 (1) collaborate with States, local educational
4 agencies, schools, community colleges, universities
5 (including minority-serving institutions), workforce-
6 training organizations, national laboratories, State
7 energy offices, workforce investment boards, and the
8 energy and manufacturing industries;

9 (2) encourage and foster collaboration,
10 mentorships, and partnerships among organizations
11 (including industry, States, local educational agen-
12 cies, schools, community colleges, workforce-develop-
13 ment organizations, and colleges and universities)
14 that currently provide effective job training pro-
15 grams in the energy and manufacturing fields and
16 entities (including States, local educational agencies,
17 schools, community colleges, workforce development
18 programs, and colleges and universities) that seek to
19 establish these types of programs in order to share
20 best practices; and

21 (3) collaborate with the Bureau of Labor Sta-
22 tistics, the Department of Commerce, the Bureau of
23 the Census, States, and the energy and manufac-
24 turing industries to develop a comprehensive and de-
25 tailed understanding of the energy and manufac-

1 turing workforce needs and opportunities by State
2 and by region.

3 (f) OUTREACH TO MINORITY-SERVING INSTITU-
4 TIONS.—In carrying out this section, the Secretary shall—

5 (1) give special consideration to increasing out-
6 reach to minority-serving institutions and Histori-
7 cally Black Colleges and Universities;

8 (2) make existing resources available through
9 program cross-cutting to minority-serving institu-
10 tions with the objective of increasing the number of
11 skilled minorities and women trained to go into the
12 energy and manufacturing sectors;

13 (3) encourage industry to improve the opportu-
14 nities for students of minority-serving institutions to
15 participate in industry internships and cooperative
16 work/study programs; and

17 (4) partner with the Department of Energy lab-
18 oratories to increase underrepresented groups' par-
19 ticipation in internships, fellowships, traineeships,
20 and employment at all Department of Energy lab-
21 oratories.

22 (g) OUTREACH TO DISLOCATED ENERGY AND MANU-
23 FACTURING WORKERS.—In carrying out this section, the
24 Secretary shall—

1 (1) give special consideration to increasing out-
2 reach to employers and job trainers preparing dis-
3 located energy and manufacturing workers for in-de-
4 mand sectors or occupations;

5 (2) make existing resources available through
6 program cross-cutting to institutions serving dis-
7 located energy and manufacturing workers with the
8 objective of training individuals to re-enter in-de-
9 mand sectors or occupations;

10 (3) encourage the energy and manufacturing in-
11 dustries to improve opportunities for dislocated en-
12 ergy and manufacturing workers to participate in
13 career pathways; and

14 (4) work closely with the energy and manufac-
15 turing industries to identify energy and manufac-
16 turing operations, such as coal-fired power plants
17 and coal mines scheduled for closure, to provide
18 early intervention assistance to workers employed at
19 such energy and manufacturing operations by—

20 (A) partnering with State boards and local
21 boards;

22 (B) giving special consideration to employ-
23 ers and job trainers preparing such workers for
24 in-demand sectors or occupations;

1 (C) making existing resources available
2 through program cross-cutting to institutions
3 serving such workers with the objective of train-
4 ing them to re-enter in-demand sectors or occu-
5 pations; and

6 (D) encouraging the energy and manufac-
7 turing industries to improve opportunities for
8 such workers to participate in career pathways.

9 (h) ENROLLMENT IN WORKFORCE DEVELOPMENT
10 PROGRAMS.—In carrying out this section, the Secretary
11 shall work with industry and community-based workforce
12 organizations to help identify candidates, including from
13 underrepresented communities such as minorities, women,
14 and veterans, to enroll in workforce development programs
15 for energy and manufacturing-related jobs.

16 (i) PROHIBITION.—Nothing in this section may be
17 construed as authorizing the creation of a new workforce
18 development program.

19 (j) REPORT.—Not later than five years after the date
20 of the enactment of this Act, the Secretary shall publish
21 a comprehensive report to the Committee on Energy and
22 Commerce and the Committee on Education and the
23 Workforce of the House of Representatives and the Com-
24 mittee on Energy and Natural Resources Committee of
25 the Senate on the outlook for energy and manufacturing

1 sectors nationally. The report shall also include a com-
2 prehensive summary of energy and manufacturing job cre-
3 ation as a result of the enactment of this section, and shall
4 include performance data regarding the number of pro-
5 gram participants served, the percentage of participants
6 in competitive integrated employment two quarters and
7 four quarters after program completion, the median in-
8 come of program participants two quarters and four quar-
9 ters after program completion, and the percentage of pro-
10 gram participants receiving industry-recognized creden-
11 tials.

12 (k) USE OF EXISTING FUNDS.—No additional funds
13 are authorized to carry out the requirements of this sec-
14 tion. Such requirements shall be carried out using
15 amounts otherwise authorized.

16 (l) DEFINITIONS.—In this section:

17 (1) CAREER PATHWAY; DISLOCATED WORKER;
18 IN-DEMAND SECTOR OR OCCUPATION; LOCAL BOARD;
19 STATE BOARD.—The terms “career pathway”, “dis-
20 located worker”, “in-demand sector or occupation”,
21 “local board”, and “State board” have the meanings
22 given the terms “career pathway”, “dislocated work-
23 er”, “in-demand sector or occupation”, “local
24 board”, and “State board”, respectively, in section 3

1 of the Workforce Innovation and Opportunity Act
2 (29 U.S.C. 3102).

3 (2) MINORITY-SERVING INSTITUTION.—The
4 term “minority-serving institution” means an insti-
5 tution of higher education with a designation of one
6 of the following:

7 (A) Hispanic-serving institution (as de-
8 fined in section 502(a)(5) of the Higher Edu-
9 cation Act of 1965 (20 U.S.C. 1101a(a)(5)).

10 (B) Tribal College or University (as de-
11 fined in section 316(b) of the Higher Education
12 Act of 1965 (20 U.S.C. 1059c(b)).

13 (C) Alaska Native-serving institution or a
14 Native Hawaiian-serving institution (as defined
15 in section 317(b) of the Higher Education Act
16 of 1965 (20 U.S.C. 1059d(b)).

17 (D) Predominantly Black Institution (as
18 defined in section 318(b) of the Higher Edu-
19 cation Act of 1965 (20 U.S.C. 1059e(b)).

20 (E) Native American-serving nontribal in-
21 stitution (as defined in section 319(b) of the
22 Higher Education Act of 1965 (20 U.S.C.
23 1059f(b)).

24 (F) Asian American and Native American
25 Pacific Islander-serving institution (as defined

1 in section 320(b) of the Higher Education Act
2 of 1965 (20 U.S.C. 1059g(b)).

