

114TH CONGRESS
2D SESSION

H. R. 4583

IN THE SENATE OF THE UNITED STATES

MARCH 1, 2016

Received; read twice and referred to the Committee on Energy and Natural
Resources

AN ACT

To promote a 21st century energy and manufacturing
workforce.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. ENERGY AND MANUFACTURING WORKFORCE**
2 **DEVELOPMENT.**

3 (a) IN GENERAL.—The Secretary of Energy (in this
4 Act 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—

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

23 (A) Energy efficiency industry, including
24 work in energy efficiency, conservation, weath-
25 erization, or retrofitting, or as inspectors or
26 auditors.

1 (B) Pipeline industry, including work in
2 pipeline construction and maintenance or work
3 as engineers or technical advisors.

4 (C) Utility industry, including work in the
5 generation, transmission, and distribution of
6 electricity and natural gas, such as utility tech-
7 nicians, operators, lineworkers, engineers, sci-
8 entists, and information technology specialists.

9 (D) Nuclear industry, including work as
10 scientists, engineers, technicians, mathemati-
11 cians, or security personnel.

12 (E) Oil and gas industry, including work
13 as scientists, engineers, technicians, mathemati-
14 cians, petrochemical engineers, or geologists.

15 (F) Renewable industry, including work in
16 the development, manufacturing, and produc-
17 tion of renewable energy sources (such as solar,
18 hydropower, wind, or geothermal energy).

19 (G) Coal industry, including work as coal
20 miners, engineers, developers and manufactur-
21 ers of state-of-the-art coal facilities, technology
22 vendors, coal transportation workers and opera-
23 tors, or mining equipment vendors.

24 (H) Manufacturing industry, including
25 work as operations technicians, operations and

1 design in additive manufacturing, 3-D printing,
2 advanced composites, and advanced aluminum
3 and other metal alloys, industrial energy effi-
4 ciency management systems, including power
5 electronics, and other innovative technologies.

6 (I) Chemical manufacturing industry, in-
7 cluding work in construction (such as welders,
8 pipefitters, and tool and die makers) or as in-
9 strument and electrical technicians, machinists,
10 chemical process operators, chemical engineers,
11 quality and safety professionals, and reliability
12 engineers; and

13 (2) strengthening and more fully engaging De-
14 partment of Energy programs and labs in carrying
15 out the Department's workforce development initia-
16 tives including the Minorities in Energy Initiative.

17 (b) PROHIBITION.—Nothing in this section shall be
18 construed to authorize the Secretary or any other officer
19 or employee of the Federal Government to incentivize, re-
20 quire, or coerce a State, school district, or school to adopt
21 curricula aligned to the skills described in subsection (a).

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

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

3 (1) maintain and update information and re-
4 sources on training and workforce development pro-
5 grams for energy and manufacturing-related jobs,
6 including job training and workforce development
7 programs available to assist displaced and unem-
8 ployed energy and manufacturing workers
9 transitioning to new employment; and

10 (2) provide technical assistance for States, local
11 educational agencies, schools, community colleges,
12 universities (including minority serving institutions),
13 workforce development programs, labor-management
14 organizations, and industry organizations that would
15 like to develop and implement energy and manufac-
16 turing-related training programs.

17 (e) COLLABORATION.—In carrying out this section,
18 the Secretary—

19 (1) shall collaborate with States, local edu-
20 cational agencies, schools, community colleges, uni-
21 versities (including minority serving institutions),
22 workforce-training organizations, national labora-
23 tories, State energy offices, workforce investment
24 boards, and the energy and manufacturing indus-
25 tries;

1 (2) shall encourage and foster collaboration,
2 mentorships, and partnerships among organizations
3 (including industry, States, local educational agen-
4 cies, schools, community colleges, workforce-devel-
5 opment organizations, and colleges and universities)
6 that currently provide effective job training pro-
7 grams in the energy and manufacturing fields and
8 entities (including States, local educational agencies,
9 schools, community colleges, workforce development
10 programs, and colleges and universities) that seek to
11 establish these types of programs in order to share
12 best practices; and

13 (3) shall collaborate with the Bureau of Labor
14 Statistics, the Department of Commerce, the Bureau
15 of the Census, States, and the energy and manufac-
16 turing industries to develop a comprehensive and de-
17 tailed understanding of the energy and manufac-
18 turing workforce needs and opportunities by State
19 and by region.

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

22 (1) give special consideration to increasing out-
23 reach to minority serving institutions and Histori-
24 cally Black Colleges and Universities;

1 (2) make existing resources available through
2 program cross-cutting to minority serving institu-
3 tions with the objective of increasing the number of
4 skilled minorities and women trained to go into the
5 energy and manufacturing sectors;

6 (3) encourage industry to improve the opportu-
7 nities for students of minority serving institutions to
8 participate in industry internships and cooperative
9 work/study programs; and

10 (4) partner with the Department of Energy lab-
11 oratories to increase underrepresented groups' par-
12 ticipation in internships, fellowships, traineeships,
13 and employment at all Department of Energy lab-
14 oratories.

15 (g) OUTREACH TO DISLOCATED ENERGY AND MANU-
16 FACTURING WORKERS.—In carrying out this section, the
17 Secretary shall—

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

22 (2) make existing resources available through
23 program cross-cutting to institutions serving dis-
24 located energy and manufacturing workers with the

1 objective of training individuals to re-enter in-de-
2 mand sectors or occupations;

3 (3) encourage the energy and manufacturing in-
4 dustries to improve opportunities for dislocated en-
5 ergy and manufacturing workers to participate in
6 career pathways; and

7 (4) work closely with the energy and manufac-
8 turing industries to identify energy and manufac-
9 turing operations, such as coal-fired power plants
10 and coal mines, scheduled for closure and to provide
11 early intervention assistance to workers employed at
12 such energy and manufacturing operations by—

13 (A) partnering with State and local work-
14 force development boards;

15 (B) giving special consideration to employ-
16 ers and job trainers preparing such workers for
17 in-demand sectors or occupations;

18 (C) making existing resources available
19 through program cross-cutting to institutions
20 serving such workers with the objective of train-
21 ing them to re-enter in-demand sectors or occu-
22 pations; and

23 (D) encouraging the energy and manufac-
24 turing industries to improve opportunities for
25 such workers to participate in career pathways.

1 (h) ENROLLMENT IN WORKFORCE DEVELOPMENT
2 PROGRAMS.—In carrying out this section, the Secretary
3 shall work with industry and community-based workforce
4 organizations to help identify candidates, including from
5 underrepresented communities such as minorities, women,
6 and veterans, to enroll in workforce development programs
7 for energy and manufacturing-related jobs.

8 (i) PROHIBITION.—Nothing in this section shall be
9 construed as authorizing the creation of a new workforce
10 development program.

11 (j) DEFINITIONS.—In this section:

12 (1) CAREER PATHWAYS; DISLOCATED WORKER;
13 IN-DEMAND SECTORS OR OCCUPATIONS; LOCAL
14 WORKFORCE DEVELOPMENT BOARD; STATE WORK-
15 FORCE DEVELOPMENT BOARD.—The terms “career
16 pathways”, “dislocated worker”, “in-demand sectors
17 or occupations”, “local workforce development
18 board”, and “State workforce development board”
19 have the meanings given the terms “career path-
20 ways”, “dislocated worker”, “in-demand sectors or
21 occupations”, “local board”, and “State board”, re-
22 spectively, in section 3 of the Workforce Innovation
23 and Opportunity Act (29 U.S.C. 3102).

24 (2) MINORITY-SERVING INSTITUTION.—The
25 term “minority-serving institution” means an insti-

1 tution of higher education with a designation of one
2 of the following:

3 (A) Hispanic-serving institution (as de-
4 fined in 20 U.S.C.1101a(a)(5)).

5 (B) Tribal College or University (as de-
6 fined in 20 U.S.C.1059c(b)).

7 (C) Alaska Native-serving institution or a
8 Native Hawaiian-serving institution (as defined
9 in 20 U.S.C.1059d(b)).

10 (D) Predominantly Black Institution (as
11 defined in 20 U.S.C.1059e(b)).

12 (E) Native American-serving nontribal in-
13 stitution (as defined in 20 U.S.C.1059f(b)).

14 (F) Asian American and Native American
15 Pacific Islander-serving institution (as defined
16 in 20 U.S.C.1059g(b)).

17 **SEC. 2. REPORT.**

18 Five years after the date of enactment of this Act,
19 the Secretary shall publish a comprehensive report to the
20 Committee on Energy and Commerce and the Committee
21 on Education and the Workforce of the House of Rep-
22 resentatives and the Senate Energy and Natural Re-
23 sources Committee on the outlook for energy and manu-
24 facturing sectors nationally. The report shall also include
25 a comprehensive summary of energy and manufacturing

1 job creation as a result of the enactment of this Act. The
2 report shall include performance data regarding the num-
3 ber of program participants served, the percentage of par-
4 ticipants in competitive integrated employment two quar-
5 ters and four quarters after program completion, the me-
6 dian income of program participants two quarters and
7 four quarters after program completion, and the percent-
8 age of program participants receiving industry-recognized
9 credentials.

10 **SEC. 3. USE OF EXISTING FUNDS.**

11 No additional funds are authorized to carry out the
12 requirements of this Act. Such requirements shall be car-
13 ried out using amounts otherwise authorized.

Passed the House of Representatives February 29,
2016.

Attest:

KAREN L. HAAS,
Clerk.