

114TH CONGRESS
2D SESSION

H. R. 4583

To promote a 21st century energy and manufacturing workforce.

IN THE HOUSE OF REPRESENTATIVES

FEBRUARY 23, 2016

Mr. RUSH (for himself and Mr. HUDSON) introduced the following bill; which was referred to the Committee on Education and the Workforce, and in addition to the Committee on Energy and Commerce, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

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,*

3 **SECTION 1. ENERGY AND MANUFACTURING WORKFORCE**
4 **DEVELOPMENT.**

5 (a) IN GENERAL.—The Secretary of Energy (in this
6 Act referred to as the “Secretary”) shall prioritize edu-
7 cation and training for energy and manufacturing-related
8 jobs in order to increase the number of skilled workers

1 trained to work in energy and manufacturing-related
2 fields, including by—

3 (1) encouraging the Nation’s education system
4 to equip students with the skills, mentorships, train-
5 ing, and technical expertise necessary to fill the em-
6 ployment opportunities vital to managing and oper-
7 ating the Nation’s energy and manufacturing indus-
8 tries, in collaboration with representatives from the
9 energy and manufacturing industries (including the
10 oil, gas, coal, nuclear, utility, pipeline, renewable, pe-
11 trochemical, manufacturing, and electrical construc-
12 tion sectors) to identify the areas of highest need in
13 each sector and to develop guidelines for the skills
14 necessary to develop a workforce trained to go into
15 the following sectors of the energy and manufac-
16 turing sectors:

17 (A) Energy efficiency industry, including
18 work in energy efficiency, conservation, weath-
19 erization, or retrofitting, or as inspectors or
20 auditors.

21 (B) Pipeline industry, including work in
22 pipeline construction and maintenance or work
23 as engineers or technical advisors.

24 (C) Utility industry, including work in the
25 generation, transmission, and distribution of

1 electricity and natural gas, such as utility tech-
2 nicians, operators, lineworkers, engineers, sci-
3 entists, and information technology specialists.

4 (D) Nuclear industry, including work as
5 scientists, engineers, technicians, mathemati-
6 cians, or security personnel.

7 (E) Oil and gas industry, including work
8 as scientists, engineers, technicians, mathemati-
9 cians, petrochemical engineers, or geologists.

10 (F) Renewable industry, including work in
11 the development, manufacturing, and produc-
12 tion of renewable energy sources (such as solar,
13 hydropower, wind, or geothermal energy).

14 (G) Coal industry, including work as coal
15 miners, engineers, developers and manufactur-
16 ers of state-of-the-art coal facilities, technology
17 vendors, coal transportation workers and opera-
18 tors, or mining equipment vendors.

19 (H) Manufacturing industry, including
20 work as operations technicians, operations and
21 design in additive manufacturing, 3-D printing,
22 advanced composites, and advanced aluminum
23 and other metal alloys, industrial energy effi-
24 ciency management systems, including power
25 electronics, and other innovative technologies.

1 (I) Chemical manufacturing industry, in-
2 cluding work in construction (such as welders,
3 pipefitters, and tool and die makers) or as in-
4 strument and electrical technicians, machinists,
5 chemical process operators, chemical engineers,
6 quality and safety professionals, and reliability
7 engineers;

8 (2) encouraging the Nation's education system
9 to equip students with the skills, mentorships, train-
10 ing, and technical expertise necessary to fill the em-
11 ployment opportunities vital to managing and oper-
12 ating the Nation's energy and manufacturing indus-
13 tries; and

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

18 (b) PRIORITY.—The Secretary shall make educating
19 and training underrepresented groups for energy and
20 manufacturing-related jobs a national priority.

21 (c) CLEARINGHOUSE.—In carrying out this section,
22 the Secretary shall establish a clearinghouse to—

23 (1) maintain and update information and re-
24 sources on training and workforce development pro-
25 grams for energy and manufacturing-related jobs,

1 including job training and workforce development
2 programs available to assist displaced and unem-
3 ployed energy and manufacturing workers transi-
4 tioning to new employment; and

5 (2) act as a resource, and provide guidance, for
6 schools, community colleges, universities (including
7 minority serving institutions), workforce develop-
8 ment programs, labor-management organizations,
9 and industry organizations that would like to de-
10 velop and implement energy and manufacturing-re-
11 lated training programs.

12 (d) COLLABORATION.—In carrying out this section,
13 the Secretary—

14 (1) shall collaborate with schools, community
15 colleges, universities (including minority serving in-
16 stitutions), workforce-training organizations, na-
17 tional laboratories, State energy offices, workforce
18 investment boards, and the energy and manufac-
19 turing industries;

20 (2) shall encourage and foster collaboration,
21 mentorships, and partnerships among organizations
22 (including industry, schools, community colleges,
23 workforce-development organizations, and colleges
24 and universities) that currently provide effective job
25 training programs in the energy and manufacturing

1 fields and institutions (including schools, community
2 colleges, workforce development programs, and col-
3 leges and universities) that seek to establish these
4 types of programs in order to share best practices
5 and approaches that best suit local, State, and na-
6 tional needs; and

7 (3) shall collaborate with the Bureau of Labor
8 Statistics, the Department of Commerce, the Bureau
9 of the Census, and the energy and manufacturing
10 industries to develop a comprehensive and detailed
11 understanding of the energy and manufacturing
12 workforce needs and opportunities by State and by
13 region.

14 (e) OUTREACH TO MINORITY SERVING INSTITU-
15 TIONS.—In carrying out this section, the Secretary shall—

16 (1) give special consideration to increasing out-
17 reach to minority serving institutions (including his-
18 torically Black colleges and universities, predomi-
19 nantly Black institutions, Hispanic serving institu-
20 tions, Native American serving Nontribal Institu-
21 tions, and tribal institutions);

22 (2) make existing resources available through
23 program cross-cutting to minority serving institu-
24 tions with the objective of increasing the number of

1 skilled minorities and women trained to go into the
2 energy and manufacturing sectors;

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

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

12 (f) OUTREACH TO DISPLACED AND UNEMPLOYED
13 ENERGY AND MANUFACTURING WORKERS.—In carrying
14 out this section, the Secretary shall—

15 (1) give special consideration to increasing out-
16 reach to employers and job trainers preparing dis-
17 placed and unemployed energy and manufacturing
18 workers for emerging energy and manufacturing
19 jobs;

20 (2) make existing resources available through
21 program cross-cutting to institutions serving dis-
22 placed and unemployed energy and manufacturing
23 workers with the objective of training individuals to
24 re-enter the energy and manufacturing workforce;

1 (3) encourage the energy and manufacturing in-
2 dustries to improve opportunities for displaced and
3 unemployed energy and manufacturing workers to
4 participate in internships and cooperative work/study
5 programs; and

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

12 (A) giving special consideration to employ-
13 ers and job trainers preparing such workers for
14 emerging energy and manufacturing jobs;

15 (B) making existing resources available
16 through program cross-cutting to institutions
17 serving such workers with the objective of train-
18 ing them to re-enter the energy and manufac-
19 turing workforce; and

20 (C) encouraging the energy and manufac-
21 turing industries to improve opportunities for
22 such workers to participate in internships and
23 cooperative work/study programs.

24 (g) ENROLLMENT IN TRAINING AND APPRENTICE-
25 SHIP PROGRAMS.—In carrying out this section, the Sec-

1 retary shall work with industry and community-based
2 workforce organizations to help identify students and
3 other candidates, including from underrepresented com-
4 munities such as minorities, women, and veterans, to en-
5 roll into training and apprenticeship programs for energy
6 and manufacturing-related jobs.

7 **SEC. 2. REPORT.**

8 Five years after the date of enactment of this Act,
9 the Secretary shall publish a comprehensive report to the
10 Committee on Energy and Commerce of the House of
11 Representatives and the Senate Energy and Natural Re-
12 sources Committee on the outlook for energy and manu-
13 facturing sectors nationally. The report shall also include
14 a comprehensive summary of energy and manufacturing
15 job creation as a result of the enactment of this Act.

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

17 Amounts required for carrying out this Act shall be
18 derived from amounts appropriated under authority pro-
19 vided by previously enacted law.

○