

AMENDMENT TO RULES COMMITTEE PRINT 115-
70
OFFERED BY MR. BEN RAY LUJÁN OF NEW
MEXICO

At the end of subtitle B of title XXXI, add the following new section:

1 **SEC. 31___ . MANUFACTURING TRADES EDUCATION GRANT**
2 **PROGRAM.**

3 (a) **ESTABLISHMENT OF MANUFACTURING TRADES**
4 **EDUCATION PROGRAM.—**

5 (1) The Secretary of Energy, in consultation
6 with the Secretary of Labor, may establish a pro-
7 gram, to be known as the “DOE Manufacturing
8 Trades Grant Program Act”, under which the Sec-
9 retary of Energy provides eligible entities described
10 in paragraph (2), on a competitive basis, grants for
11 technical skills-based training programs, including
12 apprenticeship and pre-apprenticeship programs,
13 that provide recognized post-secondary credentials
14 during the 5-year grant period of 2019 through
15 2024 to support—

16 (A) the enhancement of existing pro-
17 grams in manufacturing trades education

1 to further the missions of the Department
2 Of Energy national security laboratories
3 and the NNSA Production Sites; or

4 (B) the establishment of new pro-
5 grams in manufacturing trades education
6 that meet such requirements.

7 (2) Grants and awards under this section may
8 be made to industry, not-for-profit institutions, insti-
9 tutions of higher education, workforce inter-
10 mediaries, or to consortia of such institutions or in-
11 dustry.

12 (3) If the Secretary establishes the program,
13 the Secretary shall establish the program in con-
14 sultation with the Secretary of Labor, Secretary of
15 Education, the Director of the Office of Science and
16 Technology Policy, and the heads of such other rel-
17 evant Federal agencies as the Secretary of Energy
18 considers appropriate.

19 (4) If the Secretary establishes the program,
20 the Secretary shall ensure that the program is co-
21 ordinated with Department programs associated
22 with advanced manufacturing activities for missions
23 within the Department Of Energy National Security
24 Laboratories and the NNSA Production Sites.

1 (b) GEOGRAPHICAL DISTRIBUTION OF GRANTS AND
2 AWARDS.—In awarding grants and other awards under
3 this section, the Secretary shall, to the maximum extent
4 practicable, avoid geographical and Departmental con-
5 centration of awards.

6 (c) COVERED PROGRAMS.—A program of manufac-
7 turing trades education supported pursuant to this section
8 shall meet the requirements of this section.

9 (d) COMPONENTS OF PROGRAM.—The program of
10 education for which such a grant is made shall be a con-
11 solidated and integrated multidisciplinary program of edu-
12 cation with an emphasis on the following components:

13 (1) Multidisciplinary instruction that encom-
14 passes the total manufacturing engineering enter-
15 prise and that may include—

16 (A) manufacturing trades education and
17 training through classroom activities, labora-
18 tory, or employer site activities (or a combina-
19 tion thereof), on the job training activities, par-
20 ticipation in employer site projects, sponsored
21 pre-apprenticeship or apprenticeship programs,
22 cooperative work-study programs, and inter-
23 actions with other industrial facilities, con-
24 sortia, or such other activities and organiza-

1 tions in the United States and foreign countries
2 as the Secretary considers appropriate;

3 (B) Subject Matter Expert development
4 programs;

5 (C) recruitment of experienced and li-
6 censed professionals that are highly qualified in
7 relevant manufacturing trades to teach or de-
8 velop manufacturing trade courses and program
9 content;

10 (D) presentation of seminars, workshops,
11 and training for the development of specific
12 manufacturing trades skills;

13 (E) activities involving interaction between
14 students and industry, including programs for
15 visiting experts from industry or other sites or
16 industry and personnel exchanges between De-
17 partment Of Energy National Security Labora-
18 tories and the NNSA Production Sites;

19 (F) development of new, or updating and
20 modification of existing, manufacturing trades
21 curriculum, course offerings, and education pro-
22 grams;

23 (G) establishment of programs in manufac-
24 turing workforce training that are specific to
25 the unique skills and requirements needed at

1 the Department Of Energy National Security
2 Laboratories and the NNSA Production Sites;

3 (H) establishment of joint manufacturing
4 trades education programs with defense labora-
5 tories and, depots, national security labora-
6 tories, and NNSA production sites; and

7 (I) expansion of manufacturing trades
8 training and education programs and outreach
9 for members of the armed forces, dependents
10 and children of such members, veterans, and
11 employees of the Department of Defense, Na-
12 tional Security Laboratories, and NNSA pro-
13 duction sites.

14 (2) Opportunities for students to obtain work
15 experience in manufacturing through such activities
16 as apprenticeship/pre-apprenticeship programs, in-
17 ternships, summer job placements, or cooperative
18 work-study programs.

19 (3) Faculty and student engagement with in-
20 dustry that is directly related to, and supportive of,
21 the education of students in the manufacturing
22 trades because of—

23 (A) the increased understanding of manu-
24 facturing challenges and potential solutions;
25 and

1 (B) the enhanced quality and effectiveness
2 of the instruction that result from that in-
3 creased understanding.

4 (e) PROPOSALS.—If the Secretary establishes the
5 program, the Secretary shall solicit proposals for grants
6 and other awards to be made pursuant to this section for
7 the support of programs of manufacturing trades edu-
8 cation that are consistent with the purposes of this sec-
9 tion.

10 (f) MERIT COMPETITION.—Applications for awards
11 shall be evaluated on the basis of merit pursuant to com-
12 petitive procedures prescribed by the Secretary.

13 (g) SELECTION CRITERIA.—The Secretary may select
14 a proposal for an award pursuant to this section if the
15 proposal, at a minimum, does each of the following:

16 (1) Provides students access to registered ap-
17 prenticeship or pre-apprenticeship programs for im-
18 proving trades education in manufacturing tech-
19 nology.

20 (2) Contains innovative approaches for improv-
21 ing trades education in manufacturing technology.

22 (3) Demonstrates a strong commitment by the
23 proponents to apply the resources necessary to
24 achieve the objectives for which the award is to be
25 made.

1 (4) Provides for effective engagement with in-
2 dustry or government organizations that supports
3 the instruction to be provided in the proposed pro-
4 gram and is likely to improve manufacturing capa-
5 bility and technology.

6 (5) Demonstrates a significant level of involve-
7 ment of United States industry in the proposed in-
8 structional and research activities.

9 (6) Is likely to attract regional students that
10 will provide long careers to the Department Of En-
11 ergy National Security Laboratories and the NNSA
12 Production Sites and promote careers in manufac-
13 turing trades at these locations.

14 (7) Proposes to involve fully qualified personnel
15 and employer site subject matter experts who are ex-
16 perienced in manufacturing engineering education
17 and technology.

18 (8) Proposes a program that, within 3 years
19 after the award is made, is likely to attract from
20 sources other than the Federal Government the fi-
21 nancial and other support necessary to sustain such
22 program.

23 (9) Proposes to achieve a significant level of
24 participation by women, members of minority
25 groups, young adults in the age range of 17 to 29,

1 and individuals with disabilities through active re-
2 recruitment of students from among such persons.

3 (10) Trains students in advanced manufac-
4 turing trades and in relevant emerging technologies
5 and production processes.

6 (h) INSTITUTION OF HIGHER EDUCATION DE-
7 FINED.—In this section the term “institution of higher
8 education” has the meaning given such term in section
9 101(a) of the Higher Education Act of 1965 (20 U.S.C.
10 1001(a)).

