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 PROGRAM.

(a) ESTABLISHMENT OF MANUFACTURING TRADES EDUCATION PROGRAM.—

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

(A) the enhancement of existing programs in manufacturing trades education
to further the missions of the Department Of Energy national security laboratories and the NNSA Production Sites; or

(B) the establishment of new programs in manufacturing trades education that meet such requirements.

(2) Grants and awards under this section may be made to industry, not-for-profit institutions, institutions of higher education, workforce intermediaries, or to consortia of such institutions or industry.

(3) If the Secretary establishes the program, the Secretary shall establish the program in consultation with the Secretary of Labor, Secretary of Education, the Director of the Office of Science and Technology Policy, and the heads of such other relevant Federal agencies as the Secretary of Energy considers appropriate.

(4) If the Secretary establishes the program, the Secretary shall ensure that the program is coordinated with Department programs associated with advanced manufacturing activities for missions within the Department Of Energy National Security Laboratories and the NNSA Production Sites.
(b) **Geographical Distribution of Grants and Awards.**—In awarding grants and other awards under this section, the Secretary shall, to the maximum extent practicable, avoid geographical and Departmental concentration of awards.

(c) **Covered Programs.**—A program of manufacturing trades education supported pursuant to this section shall meet the requirements of this section.

(d) **Components of Program.**—The program of education for which such a grant is made shall be a consolidated and integrated multidisciplinary program of education with an emphasis on the following components:

1. Multidisciplinary instruction that encompasses the total manufacturing engineering enterprise and that may include—
   
   (A) manufacturing trades education and training through classroom activities, laboratory, or employer site activities (or a combination thereof); on the job training activities, participation in employer site projects, sponsored pre-apprenticeship or apprenticeship programs, cooperative work-study programs, and interactions with other industrial facilities, consortia, or such other activities and organiza-
tions in the United States and foreign countries as the Secretary considers appropriate;

(B) Subject Matter Expert development programs;

(C) recruitment of experienced and licensed professionals that are highly qualified in relevant manufacturing trades to teach or develop manufacturing trade courses and program content;

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

(E) activities involving interaction between students and industry, including programs for visiting experts from industry or other sites or industry and personnel exchanges between Department Of Energy National Security Laboratories and the NNSA Production Sites;

(F) development of new, or updating and modification of existing, manufacturing trades curriculum, course offerings, and education programs;

(G) establishment of programs in manufacturing workforce training that are specific to the unique skills and requirements needed at
the Department Of Energy National Security Laboratories and the NNSA Production Sites;

(H) establishment of joint manufacturing trades education programs with defense laboratories and, depots, national security laboratories, and NNSA production sites; and

(I) expansion of manufacturing trades training and education programs and outreach for members of the armed forces, dependents and children of such members, veterans, and employees of the Department of Defense, National Security Laboratories, and NNSA production sites.

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

(3) Faculty and student engagement with industry that is directly related to, and supportive of, the education of students in the manufacturing trades because of—

(A) the increased understanding of manufacturing challenges and potential solutions; and
(B) the enhanced quality and effectiveness of the instruction that result from that increased understanding.

(e) PROPOSALS.—If the Secretary establishes the program, the Secretary shall solicit proposals for grants and other awards to be made pursuant to this section for the support of programs of manufacturing trades education that are consistent with the purposes of this section.

(f) MERIT COMPETITION.—Applications for awards shall be evaluated on the basis of merit pursuant to competitive procedures prescribed by the Secretary.

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

(1) Provides students access to registered apprenticeship or pre-apprenticeship programs for improving trades education in manufacturing technology.

(2) Contains innovative approaches for improving trades education in manufacturing technology.

(3) Demonstrates a strong commitment by the proponents to apply the resources necessary to achieve the objectives for which the award is to be made.
(4) Provides for effective engagement with industry or government organizations that supports the instruction to be provided in the proposed program and is likely to improve manufacturing capability and technology.

(5) Demonstrates a significant level of involvement of United States industry in the proposed instructional and research activities.

(6) Is likely to attract regional students that will provide long careers to the Department Of Energy National Security Laboratories and the NNSA Production Sites and promote careers in manufacturing trades at these locations.

(7) Proposes to involve fully qualified personnel and employer site subject matter experts who are experienced in manufacturing engineering education and technology.

(8) Proposes a program that, within 3 years after the award is made, is likely to attract from sources other than the Federal Government the financial and other support necessary to sustain such program.

(9) Proposes to achieve a significant level of participation by women, members of minority groups, young adults in the age range of 17 to 29,
and individuals with disabilities through active recruitment of students from among such persons.

(10) Trains students in advanced manufacturing trades and in relevant emerging technologies and production processes.

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