Amendment to Rules Committee Print 116– 57 Offered by Mr. Reschenthaler of

PENNSYLVANIA

At the end of title II, add the following new subtitle:

Subtitle F—Department of Defense Simulation Training Initiative

3 SEC. 271. SHORT TITLE.

4 This subtitle may be cited as the "American Simula-5 tion Initiative".

6 SEC. 272. DEFINITIONS.

7 In this subtitle:

8 (1) The term "simulation software" means 9 computer technology and software designed to close-10 ly approximate physical phenomena using mathe-11 matical formulas for the purpose of product develop-12 ment and testing, including, but not limited to, the 13 simulation of structures, fluids, electrical, materials, 14 optics and power.

15 (2) The term "institution of higher education"
16 has the meaning given the term in section 101(a) of
17 the Higher Education Act of 1965 (20 U.S.C.
18 1001(a)).

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(4) The term "adjacent or related software
 technologies" means adjacent or related software
 technologies including, but not limited to, design and
 manufacturing, data management, production opti mization, and product lifecycle management.

6 (5) The term "simulation data management
7 software" means the software used to manage the
8 data and processes associated with simulation soft9 ware.

10 SEC. 273. PURPOSES.

11 The purpose of this subtitle is to ensure the contin-12 ued leadership of the United States in engineering simula-13 tion and its applications by promoting the development 14 and expansion of an American workforce skilled in engi-15 neering simulation, in order to—

- 16 (1) facilitate technology innovation and private17 sector commercialization;
- 18 (2) meet economic and national security goals;
 19 (3) increase the competitiveness of small- and
 20 medium- sized United States businesses in the global
 21 market;

(4) increase the competitiveness of large companies by increasing the efficiency of their small and
medium size suppliers;

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1	(5) expand the number of engineers and sci-
2	entists in the market and entering the market with
3	expertise in engineering simulation;
4	(6) increase the number of United States small
5	and medium sized businesses that use engineering
6	simulation software as part of their standard oper-
7	ations;
8	(7) promote increased participation in engineer-
9	ing simulation including those individuals identified
10	in sections 33 and 34 of the Science and Engineer-
11	ing Equal Opportunities Act (42 U.S.C. 1885a,
12	1885b); and
13	(8) promote economic upward mobility by pro-
15	(b) promote economic upward mobility by pro-
13	viding greater access to higher paid jobs.
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1 tion software and applications, that can be accessed by
2 students currently enrolled in institutions of higher edu3 cation, as well as engineers and scientists already in the
4 workforce (collectively referred to in this section as "stu5 dents"), including by—

6 (1) developing a comprehensive curriculum and
7 certification program for students;

8 (2) establishing a set of standard simulation 9 tools using commercial-off-the-shelf simulation soft-10 ware, that support a broad range of simulation ac-11 tivities, including, but not limited to, simulation at 12 the following design stages: ideation, detailed design, 13 manufacturing, and operations and sustainment;

14 (3) providing students with tools of the trade
15 that they can take with them to their future jobs;
16 (4) allowing such students to use what they
17 have learned to optimize and standardize the cur18 riculum and certification requirements; and

(5) fostering innovation by bringing industry
perspectives to engineering simulation workforce development, including by leveraging industry knowledge and resources.

23 (c) REQUIREMENTS.—

24 (1) IN GENERAL.—A commercial entity, an in25 stitution of higher education or an eligible nonprofit

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organization (or a consortium thereof) seeking funding under this subtitle (each, hereinafter individually
referred to as an "eligible recipient" or collectively,
as "eligible recipients") shall submit an application
to the Secretary of Defense at such time, in such
manner, and containing such information as the Secretary may require.

8 (2) ELIGIBLE RECIPIENTS.—To be eligible to 9 receive a grant under this subtitle, an eligible recipi-10 ent shall—

(A) develop a standardized, accredited, national certification training program for students (hereinafter referred to as the "Program"), that can be replicated and administered beyond the initial eligible recipient;

(B) consider enrollment by qualified applicants, both currently enrolled in an institution
of higher education or already in the workforce,
who can demonstrate increased employment
prospects or enhanced career development because of completion of the Program;

(C) be able to train students on state-ofthe-art commercial-off-the-shelf simulation software, on a broad range of simulation activities
including, but not limited to, the simulation of

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1	structures, fluids, electrical, materials, optics,
2	and power;
3	(D) enable a student to graduate the Pro-
4	gram within a three-month period (hereinafter
5	referred to as "graduate"); and
6	(E) be able to graduate an average of
7	10,000 students per year over the first 5 years,
8	sourced nationally.
9	(d) Selection and Duration.—
10	(1) IN GENERAL.—Each eligible recipient is au-
11	thorized to use a grant under this subtitle carry out
12	the activities as set forth in this subtitle for a period
13	of 5 years.
14	(2) REAPPLICATION.—An eligible recipient that
15	was previously awarded a grant under this subtitle
16	may reapply for additional, subsequent periods of 5
17	years on a competitive, merit-reviewed basis.
18	(3) TERMINATION.—The Secretary of Defense
19	may terminate a grant made to an underperforming
20	eligible recipient for cause during the performance
21	period.
22	(e) Funding.—Subject to the availability of appro-
23	priations, the Secretary of Defense shall allocate up to a
24	total of \$75,000,000 for each eligible recipient under this
25	subtitle for each of fiscal years 2021 through 2025.

- 1 Amounts made available to carry out this subtitle shall
- 2~ be derived from amounts appropriated or otherwise made
- 3 available to the Department of Defense.

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