AMENDMENT TO RULES COMMITTEE PRINT
117–31

OFFERED BY MS. LOFGREN OF CALIFORNIA

Page 785, after line 11, insert the following:

1 **SEC. 20214. SUPERCOMPUTING FOR SAFER CHEMICALS**
2 **(SUPERSAFE) CONSORTIUM.**

3 (a) ESTABLISHMENT.—

4   (1) IN GENERAL.—The Secretary of Health and
5 Human Services (referred to in this section as the
6 "Secretary"), through the Director of the National
7 Toxicology Program, and in collaboration with the
8 heads of any other relevant Federal agencies (includ-
9 ing the Administrator of the Environmental Protec-
10 tion Agency and the Secretary of Energy), shall
11 form a consortium, to be known as the "Supercom-
12 puting for Safer Chemicals (SUPERSAFE) Consor-
13 tium" (referred to in this section as the "Consor-
14 tium") with the National Laboratories of the De-
15 partment of Energy and public research institutions
16 to carry out the activities described in subsection
17 (b).

18   (2) INCLUSION OF STATE AGENCIES.—The Sec-
19 retary shall allow the head of a relevant State agen-

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1   cy to join the Consortium on request of the State

2   agency.

3   (b) CONSORTIUM ACTIVITIES.—

4   (1) IN GENERAL.—The Consortium, working

5   through the National Laboratories and public re-

6   search institutions, shall use supercomputing, ma-

7   chine learning, and other similar capabilities—

8   (A) to establish rapid approaches for large-

9   scale identification of toxic substances and the

10   development of safer alternatives to toxic sub-

11   stances by developing and validating computa-

12   tional toxicology methods based on unique high-

13   performance computing, artificial intelligence,

14   machine learning, and precision measurements;

15   (B) to address the need to identify safer

16   chemicals for use in consumer and industrial

17   products and in their manufacture to support

18   the move away from toxic substances and to-

19   ward safer-by-design alternatives; and

20   (C) to make recommendations on how the

21   information produced can be applied in risk as-

22   sessments and other characterizations for use

23   by the Environmental Protection Agency and

24   other agencies in regulatory decisions, and by

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1 industry in identifying toxic and safer chemi-

2 cals.

3 (2) MODELS.—In carrying out paragraph (1),

4 the Consortium—

5 (A) shall use supercomputers and other

6 virtual tools to develop, validate, and run mod-

7 els to predict adverse health effects caused by

8 toxic substances and to identify safe chemicals

9 for use in products and manufacturing; and

10 (B) may utilize, as needed, appropriate bi-

11 ological test systems to test and evaluate ap-

12 proaches and improve their predictability and

13 reliability in industrial and regulatory applica-

14 tions.

15 (c) PUBLIC RESULTS.—The Consortium shall make

16 model predictions, along with supporting documentation,

17 available to the public in an accessible format.

18 (d) AUTHORIZATION OF APPROPRIATIONS.—

19 (1) IN GENERAL.—There is authorized to be

20 appropriated to the Secretary to carry out this sec-

21 tion—

22 (A) for fiscal year 2022, $20,000,000;

23 (B) for fiscal year 2023, $30,000,000; and

24 (C) for each of fiscal years 2024 through

25 2026, $35,000,000.

1   (2) AVAILABILITY.—From the amounts made
2 available under paragraph (1) for a fiscal year, not
3 less than $5,000,000 shall be available to the Envi-
4 ronmental Protection Agency.

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