

**AMENDMENT TO THE AMENDMENT IN THE NATURE  
OF A SUBSTITUTE TO H.R. 3593  
OFFERED BY MS. LOFGREN OF CALIFORNIA**

Page 43, after line 1, insert the following (and re-designate subsequent sections accordingly):

1 **SEC. 5. SUPERCOMPUTING FOR SAFER CHEMICALS**  
2 **(SUPERSAFE) CONSORTIUM.**

3 (a) ESTABLISHMENT.—

4 (1) IN GENERAL.—The Administrator of the  
5 Environmental Protection Agency, in collaboration  
6 with the Secretary of Energy, the Secretary of  
7 Labor, the Secretary of Health and Human Services,  
8 the Director of the National Toxicology Program,  
9 and the heads of any other relevant Federal agen-  
10 cies, shall form a consortium, to be known as the  
11 “Supercomputing for Safer Chemicals  
12 (SUPERSAFE) Consortium” (referred to in this  
13 section as the “Consortium”).

14 (2) INCLUSION OF STATE AGENCIES.—The Sec-  
15 retary shall allow the head of a relevant State agen-  
16 cy to join the Consortium on request of the State  
17 agency.

18 (b) CONSORTIUM ACTIVITIES.—

1           (1) IN GENERAL.—The Consortium, working  
2 through the National Laboratories and public re-  
3 search institutions, shall use supercomputing and  
4 other similar capabilities—

5                   (A) to establish rapid approaches for large-  
6 scale identification of toxic substances and the  
7 development of safer alternatives to toxic sub-  
8 stances by developing and validating computa-  
9 tional toxicology methods based on unique high-  
10 performance computing, artificial intelligence,  
11 machine learning, and precision measurements;

12                   (B) to transition to a more circular econ-  
13 omy and cleaner energy by expanding knowl-  
14 edge to shift the market for toxic substances  
15 and products toward safe-by-design alternatives;  
16 and

17                   (C) to address the burdens of—

18                           (i) environmental toxic substance ex-  
19 posures in disadvantaged communities;

20                           (ii) greater toxic substance use in  
21 products targeted towards those commu-  
22 nities; and

23                           (iii) exposure to toxic substances at  
24 Department of Energy facilities.

1           (2) MODELS.—In carrying out paragraph (1),  
2           the Consortium shall use supercomputers to develop,  
3           validate, and run models to predict adverse health  
4           effects caused by toxic substances.

5           (c) AUTHORIZATION OF APPROPRIATIONS.—There is  
6           authorized to be appropriated to the Secretary to carry  
7           out this section—

- 8                   (1) for fiscal year 2022, \$20,000,000;  
9                   (2) for fiscal year 2023, \$30,000,000; and  
10                  (3) for each fiscal years 2024 through 2026,  
11           \$35,000,000.

