

**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 new section:

**SEC. XX. SUPERCOMPUTING FOR SAFER CHEMICALS (SUPERSAFE)  
CONSORTIUM.**

(a) ESTABLISHMENT. –

(1) IN GENERAL. – The Administrator of the Environmental Protection Agency, in collaboration with the Secretary of Energy, the Secretary of Labor, the Secretary of Health and Human Services, the Director of the National Toxicology Program, and the heads of any other relevant Federal agencies, shall form a consortium, to be known as the “Supercomputing for Safer Chemicals (SUPERSAFE) Consortium” (referred to in this section as the “Consortium”).

(2) INCLUSION OF STATE AGENCIES. – The Secretary shall allow the head of a relevant State agency to join the Consortium on request of the State agency.

(b) CONSORTIUM ACTIVITIES. –

(1) IN GENERAL. – The Consortium, working through the National Laboratories and public research institutions, shall use supercomputing and other similar capabilities –

(A) to establish rapid approaches for large-scale identification of toxic substances and the development of safer alternatives to toxic substances by developing and validating computational toxicology methods based on unique high-performance computing, artificial intelligence, machine learning, and precision measurements;

(B) to transition to a more circular economy and cleaner energy by expanding knowledge to shift the market for toxic substances and products toward safe-by-design alternatives; and

(C) to address the burdens of –

- (i) environmental toxic substance exposures in disadvantaged communities;
- (ii) greater toxic substance use in products targeted towards those communities; and
- (iii) exposure to toxic substances at Department of Energy facilities.

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

(c) AUTHORIZATION OF APPROPRIATIONS. – There is authorized to be appropriated to the Secretary to carry out this section –

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