

117TH CONGRESS  
2D SESSION

# H. R. 7289

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IN THE SENATE OF THE UNITED STATES

JULY 27, 2022

Received; read twice and referred to the Committee on Environment and  
Public Works

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## AN ACT

To provide for the National Academies to study and report  
on a Federal research agenda to advance the under-  
standing of PFAS, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

1 **SECTION 1. SHORT TITLE.**

2 This Act may be cited as the “Federal PFAS Re-  
3 search Evaluation Act”.

4 **SEC. 2. FINDINGS.**

5 Congress finds the following:

6 (1) Perfluoroalkyl and polyfluoroalkyl sub-  
7 stances (PFAS) are a group of man-made chemicals  
8 that have been used in a wide range of products  
9 since the 1940s including firefighting foam, car-  
10 peting, packaging, and cookware. There are more  
11 than 5,000 types of registered PFAS compounds.  
12 This chemical class is not currently regulated at the  
13 Federal level.

14 (2) PFAS have been detected in air, water, soil,  
15 food, biosolids, and more. They can accumulate and  
16 remain in the body for a long time, and potentially  
17 lead to serious health effects including cancer, low  
18 infant birthweight, liver and kidney issues, reproduc-  
19 tive and developmental problems, and more.

20 (3) There remains much unknown about PFAS  
21 toxicity, human and environmental health effects, ex-  
22 posure pathways, as well as effective removal, treat-  
23 ment, and destruction methods, and safe alternatives  
24 to PFAS.

25 (4) Federal research efforts have been frag-  
26 mented at various agencies and struggled to effec-

1 tively address the full scope of challenges presented  
2 by PFAS.

3 (5) Regulatory action and cleanup depend on  
4 scientific analysis of toxicity data, decision making  
5 on how best to deal with PFAS, and understanding  
6 the significance of the many exposure pathways that  
7 exist. A consensus study by the National Academies  
8 would help inform decisions by Federal and State  
9 Governments, industry, and other stakeholders on  
10 how to best address PFAS.

11 **SEC. 3. NATIONAL ACADEMIES REPORTS.**

12 (a) RESEARCH ASSESSMENTS OF PFAS.—

13 (1) IN GENERAL.—Not later than 90 days after  
14 the date on which amounts are appropriated for fis-  
15 cal year 2023 to carry out this section, the Adminis-  
16 trator of the Environmental Protection Agency, in  
17 consultation with the Director of the National  
18 Science Foundation, the Secretary of Defense, the  
19 Director of the National Institutes of Health, and  
20 other Federal agencies with expertise relevant to un-  
21 derstanding PFAS exposure, behavior, and toxicity,  
22 shall enter into an agreement with the National  
23 Academies to conduct a study and submit a report  
24 in accordance with this subsection to further address  
25 research and knowledge gaps identified by the Fed-

1 eral Government Human Health PFAS Research  
2 Workshop held on October 26 and 27, 2020, and  
3 identify research and development needed to iden-  
4 tify, categorize, evaluate, and address individual or  
5 total PFAS.

6 (2) STUDY AND REPORT ON HUMAN EXPOSURE  
7 ESTIMATION.—

8 (A) IN GENERAL.—The study required to  
9 be conducted under paragraph (1) shall, at a  
10 minimum—

11 (i) consider life-cycle information on  
12 the manufacture, use, and disposal of  
13 PFAS-containing products to identify po-  
14 tential human exposure sources, including  
15 occupational exposures, and potential expo-  
16 sure pathways for the public;

17 (ii) evaluate the fate and transport of  
18 PFAS and their breakdown products;

19 (iii) if feasible, estimate human expo-  
20 sure to individual or total PFAS to deter-  
21 mine relative source contributions for var-  
22 ious exposure pathways (such as air,  
23 water, soil, or food);

24 (iv) determine the range of solubility,  
25 stability, and volatility of PFAS most like-

1 ly to be found in the environment and the  
2 resulting prevalence in animals and hu-  
3 mans;

4 (v) give consideration as to whether  
5 chemical category-based approaches would  
6 be appropriate for evaluating PFAS tox-  
7 icity and exposure;

8 (vi) identify research needed to ad-  
9 vance exposure estimation to individual or  
10 total PFAS; and

11 (vii) identify research needed to ad-  
12 vance toxicity and hazard assessment of in-  
13 dividual or total PFAS.

14 (B) REPORT.—Not later than 540 days  
15 after the date on which the agreement described  
16 in paragraph (1) is finalized, the National  
17 Academies shall submit to Congress a report  
18 containing the findings and recommendations of  
19 the study described in subparagraph (A) and  
20 shall make such report available on a publicly  
21 accessible website.

22 (b) RESEARCH ASSESSMENT OF MANAGEMENT AND  
23 TREATMENT ALTERNATIVES FOR PFAS CONTAMINATION  
24 IN THE ENVIRONMENT.—

1           (1) IN GENERAL.—Not later than 90 days after  
2           the date on which amounts are appropriated for fis-  
3           cal year 2023 to carry out this section, the Adminis-  
4           trator of the Environmental Protection Agency and  
5           the Director of the National Science Foundation, in  
6           consultation with the Secretary of Defense and other  
7           Federal agencies with expertise relevant to the devel-  
8           opment of PFAS alternatives and the management  
9           and treatment of PFAS, shall jointly enter into an  
10          agreement with the National Academies to conduct  
11          a study and submit a report in accordance with this  
12          subsection to better understand the research and de-  
13          velopment needed to advance the understanding of  
14          the extent and implications of human and environ-  
15          mental contamination by PFAS, how to manage and  
16          treat such contamination, and the development of  
17          safe alternatives.

18           (2) SCOPE OF STUDY.—The study described in  
19          paragraph (1) shall, at a minimum, include the fol-  
20          lowing:

21                   (A) An assessment of the best available  
22                   strategies for PFAS treatment, site remedi-  
23                   ation, and safe disposal, including demonstra-  
24                   tion or pilot projects related to destruction

1 methods and alternative materials or tools for  
2 firefighters.

3 (B) A description of the research gaps re-  
4 lating to such issues, including consideration of  
5 emerging or future PFAS and potential classi-  
6 fication methods.

7 (C) Recommendations on how the Federal  
8 Government can best address the research  
9 needs identified pursuant to subparagraph (B)  
10 through increased collaboration or coordination  
11 of existing and new programs.

12 (D) Recommendations on how research can  
13 best incorporate considerations of socioeconomic  
14 issues into the development of research pro-  
15 posals and the conduct of research.

16 (3) REPORT.—Not later than 540 days after  
17 the date on which the agreement described in para-  
18 graph (1) is finalized, the National Academies shall  
19 submit to Congress a report containing the findings  
20 and recommendations of the study described in  
21 paragraph (2) and shall make such report available  
22 on a publicly accessible website.

23 (e) AUTHORIZATION OF APPROPRIATIONS.—There is  
24 authorized to be appropriated for fiscal year 2023

1 \$3,000,000 to the Administrator of the Environmental  
2 Protection Agency to carry out this section.

3 **SEC. 4. IMPLEMENTATION PLAN.**

4 Not later than 180 days after submission to Congress  
5 of latest of the National Academies reports under section  
6 3, the Director of the Office of Science and Technology  
7 Policy, in coordination with all relevant Federal agencies,  
8 shall submit to Congress an implementation plan for in-  
9 creased collaboration and coordination of Federal PFAS  
10 research, development, and demonstration activities. In  
11 preparing such an implementation plan, the Director shall  
12 take into consideration the recommendations included in  
13 the reports in section 3.

14 **SEC. 5. DEFINITIONS.**

15 In this Act:

16 (1) NATIONAL ACADEMIES.—The term “Na-  
17 tional Academies” means the National Academies of  
18 Sciences, Engineering, and Medicine.



1           (2) PFAS.—The term “PFAS” means per- and  
2 polyfluoroalkyl substances, including mixtures of  
3 such substances.

Passed the House of Representatives July 26, 2022.

Attest:                   CHERYL L. JOHNSON,  
*Clerk.*