

117TH CONGRESS  
1ST SESSION

**S.** \_\_\_\_\_

To authorize appropriations for offsetting the costs related to reductions in research productivity resulting from the coronavirus pandemic.

---

IN THE SENATE OF THE UNITED STATES

---

Mr. MARKEY (for himself, Mr. TILLIS, Ms. COLLINS, and Mr. PETERS) introduced the following bill; which was read twice and referred to the Committee on \_\_\_\_\_

---

## A BILL

To authorize appropriations for offsetting the costs related to reductions in research productivity resulting from the coronavirus pandemic.

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

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Research Investment  
5 to Spark the Economy Act of 2021” or the “RISE Act  
6 of 2021”.

7 **SEC. 2. FINDINGS.**

8 Congress finds the following:

1           (1) Federal agencies have provided Federal re-  
2           search awardees flexibility during the Coronavirus  
3           Disease 2019 (COVID–19) pandemic to support  
4           graduate and undergraduate students, post-doctoral  
5           students, principal investigators, and administrative  
6           and technical support staff.

7           (2) Federal agencies may need to provide cur-  
8           rent Federal research awardees extensions to cover  
9           time lost in awardee facilities and in the field that  
10          will affect the completion of that agencies’ research  
11          missions and priorities. Additionally, agencies have  
12          allowed federally funded laboratories to donate nec-  
13          essary equipment, such as personal protective equip-  
14          ment, to support hospitals and first responders,  
15          which may need to be repurchased and will create  
16          additional expenses under Federal contracts, grants,  
17          and cooperative agreements.

18          (3) The United States needs to sustain the crit-  
19          ical human infrastructure that undergirds the  
20          United States research enterprise, which has created  
21          a longstanding government-university partnership,  
22          that has made the United States the global leader  
23          in innovation, strengthening the health of citizens of  
24          the United States, the economy of the United  
25          States, and national security.

1           (4) While the Federal Government has made  
2           significant investments in new biomedical research  
3           to address COVID–19, existing research has been  
4           slowed down or stopped due to COVID–19-modified  
5           operations of campuses and laboratories.

6           (5) Given the modified operations of many uni-  
7           versity-based and national laboratories due to the  
8           pandemic, Congress is concerned that the people  
9           who comprise the research workforce (for example,  
10          graduate and undergraduate students, post-doctoral  
11          students, principal investigators, and administrative  
12          and technical support staff) and the future health  
13          and strength of the United States research enter-  
14          prise and manufacturing and technology economies,  
15          among others, are at risk.

16          (6) While the research capacity of the United  
17          States has demonstrated that it can absorb shocks  
18          and pivot to address immediate national threats, the  
19          scale of the COVID–19 pandemic is still growing  
20          and unprecedented in duration and effect.

21          (7) Without additional funding, future innova-  
22          tions in areas such as quantum, artificial intel-  
23          ligence, robotics, computing, advanced wireless,  
24          space exploration, digital agriculture, earth system  
25          observation and prediction, health, and science, tech-

1 nology, engineering, and mathematics education in-  
2 frastructure will be forestalled as agencies are forced  
3 to use future appropriations intended for new re-  
4 search to cover existing awards. The United States  
5 must innovate to launch the next 50 years of unpar-  
6 alleled economic leadership and be prepared for any  
7 future pandemics.

8 (8) It is vital that the Federal Government take  
9 measures to help relieve the strain that Federal  
10 agencies will be forced to face and sustain the  
11 strength of the ability of the United States to re-  
12 main a global leader in an increasingly competitive  
13 global research environment, as other countries con-  
14 tinue to make disproportionately large investments  
15 in key research areas.

16 **SEC. 3. AWARD AND MODIFICATION OF GRANTS, COOPERA-**  
17 **TIVE AGREEMENTS AND OTHER FINANCIAL**  
18 **ASSISTANCE FOR INSTITUTIONS OF HIGHER**  
19 **EDUCATION, RESEARCH LABORATORIES, AND**  
20 **OTHER RESEARCH INSTITUTIONS TO AD-**  
21 **DRESS MATTERS RELATING TO DISRUPTION**  
22 **CAUSED BY COVID-19.**

23 (a) DEFINITIONS.—In this section:

1           (1) AWARD.—The term “award” includes a  
2 grant, cooperative agreement, or other financial as-  
3 sistance.

4           (2) COVID–19 PUBLIC HEALTH EMERGENCY.—  
5 The term “COVID–19 public health emergency”  
6 means the public health emergency declared by the  
7 Secretary of Health and Human Services under sec-  
8 tion 319 of the Public Health Service Act (42  
9 U.S.C. 247d) on January 31, 2020, with respect to  
10 the Coronavirus Disease 2019 (COVID–19).

11           (3) RESEARCH INSTITUTION.—The term “re-  
12 search institution” means the following:

13                   (A) An institution of higher education (as  
14 defined in section 101(a) of the Higher Edu-  
15 cation Act of 1965 (20 U.S.C. 1001(a))).

16                   (B) A Tribal College or University (as de-  
17 fined in section 316 of the Higher Education  
18 Act of 1965 (20 U.S.C. 1059e)).

19                   (C) A nonprofit entity that conducts Fed-  
20 erally funded research.

21           (4) RESEARCH LABORATORY.—The term “Re-  
22 search Laboratory” means the following:

23                   (A) A National Laboratory (as defined in  
24 section 2 of the Energy Policy Act of 2005 (42  
25 U.S.C. 15801)).

1 (B) A Federally-Funded Research and De-  
2 velopment Center for purposes of section  
3 35.017 of title 48, Code of Federal Regulations.

4 (b) AUTHORITY.—

5 (1) IN GENERAL.—Each officer specified in  
6 paragraph (2) may exercise the authorities described  
7 in paragraph (3).

8 (2) OFFICERS.—The officers specified in this  
9 paragraph are as follows:

10 (A) The Secretary of Commerce, acting  
11 through the Administrator of the National Oce-  
12 anic and Atmospheric Administration and the  
13 Director of the National Institute of Standards  
14 and Technology.

15 (B) The Secretary of Agriculture.

16 (C) The Secretary of Defense.

17 (D) The Secretary of Education.

18 (E) The Secretary of Energy, acting for  
19 the Department of Energy (with respect to En-  
20 ergy Efficiency and Renewable Energy, Nuclear  
21 Energy, and Fossil Research and Development)  
22 and through the Office of Science, the Ad-  
23 vanced Research Projects Agency—Energy  
24 (ARPA—E), and the Office of Electricity.

1           (F) The Secretary of Interior, acting  
2 through the Director of the United States Geo-  
3 logical Survey.

4           (G) The Secretary of Health, acting  
5 through the Director of the National Institutes  
6 of Health.

7           (H) The Secretary of Transportation.

8           (I) The Administrator of the National Aer-  
9 onautics and Space Administration.

10          (J) The Administrator of the Environ-  
11 mental Protection Agency.

12          (K) The Director of the National Science  
13 Foundation.

14          (3) AUTHORITIES.—The officers specified in  
15 paragraph (1) may—

16           (A) provide supplemental funding to ex-  
17 tend the duration of an award disrupted be-  
18 cause of the COVID–19 public health emer-  
19 gency to a research institution, Research Lab-  
20 oratory, or individual that was awarded before  
21 the date of the enactment of this Act, or to ex-  
22 pand the purposes of such an award, in order  
23 to—

24           (i) enable a post-secondary student or  
25 post-doctoral researcher to complete work;

1 (ii) enable research scientists, tech-  
2 nical staff, research associates, and prin-  
3 cipal investigators to complete work;

4 (iii) extend the training of a post-sec-  
5 ondary student, or the employment of a  
6 post-doctoral researcher, on an ongoing re-  
7 search project for up to 2 years because of  
8 the disruption of the job market;

9 (iv) create research opportunities for  
10 up to 2 years for graduate students and  
11 post-doctoral researchers;

12 (v) replace, refurbish, or otherwise  
13 make usable laboratory animals, reagents,  
14 equipment, or other items required for re-  
15 search;

16 (vi) facilitate other research (including  
17 field work), training, and ongoing con-  
18 struction activities, including at institu-  
19 tions that are disproportionately affected  
20 by the COVID-19 public health emergency  
21 (such as minority-serving institutions and  
22 2-year institutions of higher education);

23 (vii) enable experimental field cam-  
24 paigns and maintenance of field infrastruc-  
25 ture, including through replacement of dis-



1                   rupted experimental data to enable comple-  
2                   tion of impacted research;

3                   (viii) support training in online course  
4                   delivery and virtual research experiences  
5                   that will improve quality and access needed  
6                   to continue undergraduate, graduate, and  
7                   post-doctoral training;

8                   (B) issue awards to research institutions,  
9                   Research Laboratories, or other individuals to  
10                  conduct research on the effects of the  
11                  Coronavirus Disease 2019 and future potential  
12                  pandemics, on the effects and effectiveness of  
13                  responses to such diseases, and on improving  
14                  the prediction of the possible courses of such  
15                  pandemics; and

16                  (C) provide flexibility on an award for  
17                  funds made available to an agency, by any prior  
18                  or subsequent Act, by modifying the terms and  
19                  conditions of the award with a research institu-  
20                  tion, Research Laboratory, or individual due to  
21                  facility closures or other limitations during the  
22                  COVID–19 public health emergency.

23                  (4) MODIFICATIONS.—The modifications au-  
24                  thorized by paragraph (3)(C) include, but are not  
25                  limited to—

1 (A) the provision of supplemental funding  
2 to extend the duration of the award concerned;  
3 or

4 (B) flexibility on the allowable expenses  
5 under such award.

6 (c) PROCEDURES.—The officers specified in sub-  
7 section (b)(2) shall each establish procedures to carry out  
8 subsection (b).

9 (d) EXPEDITED AWARDS.—Awards under subsection  
10 (b) shall be issued as expeditiously as possible.

11 (e) AUTHORIZATIONS OF APPROPRIATIONS.—

12 (1) DEPARTMENT OF COMMERCE.— There is  
13 authorized to be appropriated for fiscal year 2021  
14 for the Department of Commerce, \$450,000,000 to  
15 carry out subsection (b), of which—

16 (A) \$300,000,000 shall be for use by the  
17 National Oceanic and Atmospheric Administra-  
18 tion; and

19 (B) \$150,000,000 shall be for use by the  
20 National Institute of Standards and Tech-  
21 nology.

22 (2) DEPARTMENT OF AGRICULTURE.—There is  
23 authorized to be appropriated for fiscal year 2021  
24 for the Department of Agriculture, \$380,000,000 to  
25 carry out subsection (b).

1           (3) DEPARTMENT OF DEFENSE.—There is au-  
2           thorized to be appropriated for fiscal year 2021 for  
3           the Department of Defense, \$3,000,000,000 to carry  
4           out subsection (b).

5           (4) DEPARTMENT OF EDUCATION.—There is  
6           authorized to be appropriated for fiscal year 2021  
7           for the Department of Education, \$200,000,000 to  
8           carry out subsection (b), which shall be for use by  
9           the Institute for Education Sciences.

10          (5) DEPARTMENT OF ENERGY.—There is au-  
11          thorized to be appropriated for fiscal year 2021 for  
12          the Department of Energy, \$5,000,000,000 to carry  
13          out subsection (b), of which—

14                 (A) not less than \$3,000,000,000 shall be  
15                 for use by the Office of Science;

16                 (B) not less than \$900,000,000 shall be  
17                 for Energy Efficiency and Renewable Energy;

18                 (C) not less than \$450,000,000 shall be  
19                 for Nuclear Energy;

20                 (D) not less than \$300,000,000 shall be  
21                 for Fossil Research and Development;

22                 (E) not less than \$150,000,000 shall be  
23                 for use by the Advanced Research Projects  
24                 Agency—Energy; and

1 (F) not less than \$100,000,000 shall be  
2 for use by the Office of Electricity.

3 (6) DEPARTMENT OF INTERIOR.—There is au-  
4 thorized to be appropriated for fiscal year 2021 for  
5 the Department of Interior, \$300,000,000 to carry  
6 out subsection (b), which shall be for use by the  
7 United States Geological Survey.

8 (7) DEPARTMENT OF HEALTH AND HUMAN  
9 SERVICES.—There is authorized to be appropriated  
10 for fiscal year 2021 for the Department of Health  
11 and Human Services, \$10,000,000,000 to carry out  
12 subsection (b), which shall be for use by the Na-  
13 tional Institutes of Health.

14 (8) DEPARTMENT OF TRANSPORTATION.—  
15 There is authorized to be appropriated for fiscal  
16 year 2021 for the Department of Transportation,  
17 \$300,000,000 to carry out subsection (b), of which  
18 not less than \$130,000,000 shall be for use by the  
19 Federal Aviation Administration.

20 (9) NATIONAL AERONAUTICS AND SPACE AD-  
21 MINISTRATION.—There is authorized to be appro-  
22 priated for fiscal year 2021 for the National Aero-  
23 nautics and Space Administration, \$2,000,000,000  
24 to carry out subsection (b).

1           (10) ENVIRONMENTAL PROTECTION AGENCY.—

2           There is authorized to be appropriated for fiscal  
3           year 2021 for the Environmental Protection Agency,  
4           \$200,000,000 to carry out subsection (b).

5           (11) NATIONAL SCIENCE FOUNDATION.—There

6           is authorized to be appropriated for fiscal year 2021  
7           for the National Science Foundation,  
8           \$3,000,000,000 to carry out subsection (b).

9           (12) AVAILABILITY OF FUNDS FOR ADMINIS-  
10          TRATION.—

11           (A) IN GENERAL.—Amounts authorized to  
12           be appropriated by this subsection may be used  
13           for the payment of indirect costs of Federal  
14           awards under subsection (b), up to the limit  
15           otherwise allowable by law and subject to the  
16           requirements of part 200 of title 2, Code of  
17           Federal Regulations.

18           (B) LIMITATION.—Not more than 5 per-  
19           cent of each of the amounts appropriated pur-  
20           suant to this subsection may be used for admin-  
21           istration of awards under subsection (b).

22           (13) DURATION OF AVAILABILITY.—Amounts  
23           authorized to be appropriated by this subsection  
24           shall be available for the purposes described in this  
25           subsection through fiscal year 2021.