

110TH CONGRESS  
1ST SESSION

# H. R. 524

To establish a laboratory science pilot program at the National Science Foundation.

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## IN THE HOUSE OF REPRESENTATIVES

JANUARY 17, 2007

Mr. HINOJOSA (for himself, Mr. GORDON of Tennessee, Ms. EDDIE BERNICE JOHNSON of Texas, and Mr. BACA) introduced the following bill; which was referred to the Committee on Science and Technology

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## A BILL

To establish a laboratory science pilot program at the National Science Foundation.

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. FINDINGS.**

4       The Congress finds the following:

5           (1) To remain competitive in science and tech-  
6       nology in the global economy, the United States  
7       must increase the number of students graduating  
8       from high school prepared to pursue postsecondary  
9       education in science, technology, engineering, and  
10      mathematics.

14 (4) The National Research Council found that  
15 schools with higher concentrations of non-Asian mi-  
16 norities and schools with higher concentrations of  
17 poor students are less likely to have adequate labora-  
18 tory facilities than other schools.

19 (5) The Government Accountability Office re-  
20 ported that 49.1 percent of schools where the minor-  
21 ity student population is greater than 50.5 percent  
22 reported not meeting functional requirements for  
23 laboratory science well or at all.

24 (6) 40 percent of those college students who left  
25 the science fields reported some problems related to

1 high school science preparation, including lack of  
2 laboratory experience and no introduction to theo-  
3 retical or to analytical modes of thought.

4 (7) It is in the national interest for the Federal  
5 Government to invest in research and demonstration  
6 projects to improve the teaching of laboratory  
7 science in the Nation's high schools.

8 **SEC. 2. GRANT PROGRAM.**

9 Section 8(8) of the National Science Foundation Au-  
10 thorization Act of 2002 is amended—

11 (1) by redesignating subparagraphs (A) through  
12 (F) as clauses (i) through (vi), respectively;

13 (2) by inserting “(A)” before “A program of  
14 competitive”; and

15 (3) by inserting at the end the following new  
16 subparagraph:

17 “(B) In accordance with subparagraph (A)(v),  
18 the Director shall establish a pilot program des-  
19 ignated as ‘Partnerships for Access to Laboratory  
20 Science’ to award grants to partnerships to improve  
21 laboratories and provide instrumentation as part of  
22 a comprehensive program to enhance the quality of  
23 mathematics, science, engineering, and technology  
24 instruction at the secondary school level. Grants  
25 under this subparagraph may be used for—

1                 “(i) purchase, rental, or leasing of equipment, instrumentation, and other scientific educational materials;

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4                 “(ii) maintenance, renovation, and improvement of laboratory facilities;

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6                 “(iii) professional development and training for teachers;

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8                 “(iv) development of instructional programs designed to integrate the laboratory experience with classroom instruction and to be consistent with State mathematics and science academic achievement standards;

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13                 “(v) training in laboratory safety for school personnel;

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15                 “(vi) design and implementation of hands-on laboratory experiences to encourage the interest of individuals identified in section 33 or 34 of the Science and Engineering Equal Opportunities Act (42 U.S.C. 1885a or 1885b) in mathematics, science, engineering, and technology and help prepare such individuals to pursue postsecondary studies in these fields;

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24                 “(vii) assessment of the activities funded under this subparagraph.

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1           “(C) Grants awarded under subparagraph (B)  
2        shall be to a partnership that—

3               “(i) includes an institution of higher edu-  
4        cation or a community college;

5               “(ii) includes a high-need local educational  
6        agency;

7               “(iii) includes a business or eligible non-  
8        profit organization; and

9               “(iv) may include a State educational  
10      agency, other public agency, National Labora-  
11      tory, or community-based organization.

12        “(D) The Federal share of the cost of activities  
13      carried out using amounts from a grant under sub-  
14      paragraph (B) shall not exceed 50 percent.”.

15 **SEC. 3. REPORT.**

16        The Director of the National Science Foundation  
17      shall evaluate the effectiveness of activities carried out  
18      under the pilot projects funded by the grant program es-  
19      tablished pursuant to the amendment made by section 1  
20      in improving student performance in mathematics,  
21      science, engineering, and technology. A report docu-  
22      menting the results of that evaluation shall be submitted  
23      to the Committee on Science and Technology of the House  
24      of Representatives and the Committees on Commerce,  
25      Science, and Transportation and on Health, Education,

1 Labor, and Pensions of the Senate not later than 5 years  
2 after the date of enactment of this Act. The report shall  
3 identify best practices and materials developed and dem-  
4 onstrated by grant awardees.

**5 SEC. 4. AUTHORIZATION OF APPROPRIATIONS.**

6 There are authorized to be appropriated to the Na-  
7 tional Science Foundation to carry out this Act and the  
8 amendments made by this Act \$5,000,000 for fiscal year  
9 2008, and such sums as may be necessary for each of the  
10 3 succeeding fiscal years.

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