

108TH CONGRESS
2D SESSION

H. R. 4407

To authorize appropriations for the National Institute of Standards and Technology for fiscal years 2005, 2006, 2007, and 2008, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 19, 2004

Mr. UDALL of Colorado introduced the following bill; which was referred to the Committee on Science

A BILL

To authorize appropriations for the National Institute of Standards and Technology for fiscal years 2005, 2006, 2007, and 2008, 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,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Technology Adminis-
5 tration and National Institute of Standards and Tech-
6 nology Act of 2004”.

1 **SEC. 2. OFFICE OF THE UNDER SECRETARY FOR TECH-**
2 **NOLOGY.**

3 There are authorized to be appropriated to the Sec-
4 retary of Commerce for the activities of the Under Sec-
5 retary for Technology and the Office of Technology Pol-
6 icy—

7 (1) \$8,294,000 for fiscal year 2005;

8 (2) \$8,497,000 for fiscal year 2006;

9 (3) \$8,800,000 for fiscal year 2007; and

10 (4) \$8,927,000 for fiscal year 2008.

11 **SEC. 3. SCIENTIFIC AND TECHNICAL RESEARCH AND SERV-**
12 **ICES.**

13 (a) LABORATORY ACTIVITIES.—There are authorized
14 to be appropriated to the Secretary of Commerce for the
15 scientific and technical research and services laboratory
16 activities of the National Institute of Standards and Tech-
17 nology—

18 (1) \$425,688,000 for fiscal year 2005, of
19 which—

20 (A) \$55,777,000 shall be for Electronics
21 and Electrical Engineering;

22 (B) \$29,584,000 shall be for Manufac-
23 turing Engineering;

24 (C) \$50,142,000 shall be for Chemical
25 Science and Technology;

26 (D) \$42,240,000 shall be for Physics;

1 (E) \$62,724,000 shall be for Material
2 Science and Engineering;

3 (F) \$23,594,000 shall be for Building and
4 Fire Research;

5 (G) \$60,660,000 shall be for Computer
6 Science and Applied Mathematics, of which
7 \$2,800,000 shall be for activities in support of
8 the Help America Vote Act of 2002;

9 (H) \$17,445,000 shall be for Technical As-
10 sistance; and

11 (I) \$78,102,000 shall be for Research Sup-
12 port Activities;

13 (2) \$446,951,000 for fiscal year 2006;

14 (3) \$469,299,000 for fiscal year 2007; and

15 (4) \$492,764,000 for fiscal year 2008.

16 (b) MALCOLM BALDRIGE NATIONAL QUALITY
17 AWARD PROGRAM.—There are authorized to be appro-
18 priated to the Secretary of Commerce for the Malcolm
19 Baldrige National Quality Award program under section
20 17 of the Stevenson-Wydler Technology Innovation Act of
21 1980 (15 U.S.C. 3711a)—

22 (1) \$5,400,000 for fiscal year 2005;

23 (2) \$5,535,000 for fiscal year 2006;

24 (3) \$5,674,000 for fiscal year 2007; and

25 (4) \$5,815,000 for fiscal year 2008.

1 (c) CONSTRUCTION AND MAINTENANCE.—There are
 2 authorized to be appropriated to the Secretary of Com-
 3 merce for construction and maintenance of facilities of the
 4 National Institute of Standards and Technology—

- 5 (1) \$59,000,000 for fiscal year 2005;
- 6 (2) \$91,000,000 for fiscal year 2006;
- 7 (3) \$80,000,000 for fiscal year 2007; and
- 8 (4) \$106,000,000 for fiscal year 2008.

9 **SEC. 4. INDUSTRIAL TECHNOLOGY SERVICES.**

10 There are authorized to be appropriated to the Sec-
 11 retary of Commerce for Industrial Technology Services ac-
 12 tivities of the National Institute of Standards and Tech-
 13 nology—

- 14 (1) \$285,000,000 for fiscal year 2005, of
 15 which—

- 16 (A) \$179,000,000 shall be for the Ad-
 17 vanced Technology Program under section 28
 18 of the National Institute of Standards and
 19 Technology Act (15 U.S.C. 278n), of which at
 20 least \$60,700,000 shall be for new awards; and

- 21 (B) \$106,000,000 shall be for the Manu-
 22 facturing Extension Partnership program under
 23 sections 25 and 26 of the National Institute of
 24 Standards and Technology Act (15 U.S.C. 278k
 25 and 278l);

1 (2) \$292,125,000 for fiscal year 2006, of
2 which—

3 (A) \$183,475,000 shall be for the Ad-
4 vanced Technology Program under section 28
5 of the National Institute of Standards and
6 Technology Act (15 U.S.C. 278n); and

7 (B) \$108,650,000 shall be for the Manu-
8 facturing Extension Partnership Program
9 under sections 25 and 26 of the National Insti-
10 tute of Standards and Technology Act (15
11 U.S.C. 278k and 278l);

12 (3) \$299,428,100 for fiscal year 2007, of
13 which—

14 (A) \$188,062,000 shall be for the Ad-
15 vanced Technology Program under section 28
16 of the National Institute of Standards and
17 Technology Act (15 U.S.C. 278n); and

18 (B) \$111,366,000 shall be for the Manu-
19 facturing Extension Partnership Program
20 under sections 25 and 26 of the National Insti-
21 tute of Standards and Technology Act (15
22 U.S.C. 278k and 278l); and

23 (4) \$306,913,000 for fiscal year 2008, of
24 which—

1 (A) \$192,763,000 shall be for the Ad-
2 vanced Technology Program under section 28
3 of the National Institute of Standards and
4 Technology Act (15 U.S.C. 278n); and

5 (B) \$114,150,000 shall be for the Manu-
6 facturing Extension Partnership Program
7 under sections 25 and 26 of the National Insti-
8 tute of Standards and Technology Act (15
9 U.S.C. 278k and 278l).

10 **SEC. 5. STANDARDS EDUCATION PROGRAM.**

11 (a) PROGRAM AUTHORIZED.—(1) As part of the
12 Teacher Science and Technology Enhancement Institute
13 Program, the Director of the National Institute of Stand-
14 ards and Technology shall carry out a Standards Edu-
15 cation program to award grants to institutions of higher
16 education to support efforts by such institutions to develop
17 curricula on the role of standards in the fields of engineer-
18 ing, business, science, and economics. The curricula
19 should address topics such as—

- 20 (A) development of technical standards;
21 (B) demonstrating conformity to standards;
22 (C) intellectual property and antitrust issues;
23 (D) standardization as a key element of busi-
24 ness strategy;

- 1 (E) survey of organizations that develop stand-
- 2 ards;
- 3 (F) the standards life cycle;
- 4 (G) case studies in effective standardization;
- 5 (H) managing standardization activities; and
- 6 (I) managing organizations that develop stand-
- 7 ards.

8 (2) Grants shall be awarded under this section on a
9 competitive, merit-reviewed basis and shall require cost-
10 sharing from non-Federal sources.

11 (b) SELECTION PROCESS.—(1) An institution of
12 higher education seeking funding under this section shall
13 submit an application to the Director at such time, in such
14 manner, and containing such information as the Director
15 may require. The application shall include at a min-
16 imum—

17 (A) a description of the content and schedule
18 for adoption of the proposed curricula in the courses
19 of study offered by the applicant; and

20 (B) a description of the source and amount of
21 cost-sharing to be provided.

22 (2) In evaluating the applications submitted under
23 paragraph (1) the Director shall consider, at a min-
24 imum—

1 (A) the level of commitment demonstrated by
 2 the applicant in carrying out and sustaining lasting
 3 curricula changes in accordance with subsection
 4 (a)(1); and

5 (B) the amount of cost-sharing provided.

6 (c) AUTHORIZATION OF APPROPRIATIONS.—There
 7 are authorized to be appropriated to the Secretary of Com-
 8 merce for the Teacher Science and Technology Enhance-
 9 ment Institute program of the National Institute of Stand-
 10 ards and Technology—

11 (1) \$773,000 for fiscal year 2005;

12 (2) \$796,000 for fiscal year 2006;

13 (3) \$820,000 for fiscal year 2007; and

14 (4) \$844,000 for fiscal year 2008.

15 **SEC. 6. ENTERPRISE INTEGRATION.**

16 There are authorized to be appropriated to the Sec-
 17 retary of Commerce for activities of the National Institute
 18 of Standards and Technology under the Enterprise Inte-
 19 gration Act of 2002—

20 (1) \$20,000,000 for fiscal year 2005;

21 (2) \$20,500,000 for fiscal year 2006;

22 (3) \$21,013,000 for fiscal year 2007; and

23 (4) \$21,538,000 for fiscal year 2008.

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