

110TH CONGRESS  
1ST SESSION

# S. 1425

To enhance the defense nanotechnology research and development program.

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IN THE SENATE OF THE UNITED STATES

MAY 17, 2007

Mr. PRYOR (for himself, Ms. COLLINS, and Mr. WARNER) introduced the following bill; which was read twice and referred to the Committee on Armed Services

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## A BILL

To enhance the defense nanotechnology research and development program.

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.       ENHANCEMENT       OF       DEFENSE**  
4                       **NANOTECHNOLOGY RESEARCH AND DEVEL-**  
5                       **OPMENT PROGRAM.**

6       (a) PROGRAM PURPOSES.—Subsection (b) of section  
7       246 of the Bob Stump National Defense Authorization  
8       Act for Fiscal Year 2003 (Public Law 107–314; 116 Stat.  
9       2500; 10 U.S.C. 2358 note) is amended—

(1) in paragraph (2), by striking “in nanoscale research and development” and inserting “in the National Nanotechnology Initiative and with the National Nanotechnology Coordination Office under section 3 of the 21st Century Nanotechnology Research and Development Act (15 U.S.C. 7502)”; and

(2) in paragraph (3), by striking “portfolio of fundamental and applied nanoscience and engineering research initiatives” and inserting “portfolio of nanotechnology research and development initiatives”.

(b) PROGRAM ADMINISTRATION.—

(1) ADMINISTRATION THROUGH UNDER SECRETARY OF DEFENSE FOR ACQUISITION, TECHNOLOGY, AND LOGISTICS.—Subsection (c) of such section is amended—

(A) by striking “the Director of Defense Research and Engineering” and inserting “the Under Secretary of Defense for Acquisition, Technology, and Logistics”; and

(B) by striking “The Director” and inserting “The Under Secretary”.

(2) OTHER ADMINISTRATIVE MATTERS.—Such subsection is further amended—

1 (A) in paragraph (2), by striking “the De-  
2 partment’s increased investment in  
3 nanotechnology and the National  
4 Nanotechnology Initiative; and” and inserting  
5 “investments by the Department and other de-  
6 partments and agencies participating in the Na-  
7 tional Nanotechnology Initiative in  
8 nanotechnology research and development;”;

9 (B) in paragraph (3), by striking the pe-  
10 riod at the end and inserting “; and”; and

11 (C) by adding at the end the following new  
12 paragraph:

13 “(4) oversee interagency coordination of the  
14 program with other departments and agencies par-  
15 ticipating in the National Nanotechnology Initiative,  
16 including providing appropriate funds to support the  
17 National Nanotechnology Coordination Office.”.

18 (c) PROGRAM ACTIVITIES.—Such section is further  
19 amended—

20 (1) by striking subsection (d); and

21 (2) by adding at the end the following new sub-  
22 section (d):

23 “(d) ACTIVITIES.—Activities under the program shall  
24 include the following:

1           “(1) The development of a strategic plan for  
2       defense nanotechnology research and development  
3       that is integrated with the strategic plan for the Na-  
4       tional Nanotechnology Initiative.

5           “(2) The issuance on an annual basis of policy  
6       guidance to the military departments and the De-  
7       fense Agencies that—

8           “(A) establishes research priorities under  
9       the program;

10          “(B) provides for the determination and  
11       documentation of the benefits to the Depart-  
12       ment of Defense of research under the pro-  
13       gram; and

14          “(C) sets forth a clear strategy for  
15       transitioning the research into products needed  
16       by the Department.

17          “(3) Advocating for the transition of  
18       nanotechnologies in defense acquisition programs,  
19       including the development of nanomanufacturing ca-  
20       pabilities and a nanotechnology defense industrial  
21       base.”.

22       (d) REPORTS.—Such section is further amended by  
23   adding at the end the following new subsection:

24       “(e) REPORTS.—(1) Not later than March 1 of each  
25   of 2009, 2011, and 2013, the Under Secretary of Defense

1 for Acquisition, Technology, and Logistics shall submit to  
2 the congressional defense committees a report on the pro-  
3 gram.

4 “(2) Each report under paragraph (1) shall include  
5 the following:

6 “(A) A review of—

7 “(i) the long-term challenges and specific  
8 technical goals of the program; and

9 “(ii) the progress made toward meeting  
10 such challenges and achieving such goals.

11 “(B) An assessment of current and proposed  
12 funding levels for the program, including an assess-  
13 ment of the adequacy of such funding levels to sup-  
14 port program activities.

15 “(C) A review of the coordination of activities  
16 under the program within the Department of De-  
17 fense, with other departments and agencies of the  
18 United States, and with the National  
19 Nanotechnology Initiative.

20 “(D) A review and analysis of the findings and  
21 recommendations relating to the Department of De-  
22 fense of the most recent triennial external review of  
23 the National Nanotechnology Program under section  
24 5 of the 21st Century Nanotechnology Research and  
25 Development Act (15 U.S.C. 1704), and a descrip-

1       tion of initiatives of the Department to implement  
2       such recommendations.

3           “(E) An assessment of technology transition  
4       from nanotechnology research and development to  
5       enhanced warfighting capabilities, including con-  
6       tributions from the Department of Defense Small  
7       Business Innovative Research and Small Business  
8       Technology Transfer Research programs, and the  
9       Department of Defense Manufacturing Technology  
10      program, and an identification of acquisition pro-  
11      grams and deployed defense systems that are incor-  
12      porating nanotechnologies.

13          “(F) An assessment of global nanotechnology  
14      research and development in areas of interest to the  
15      Department, including an identification of the use of  
16      nanotechnologies in any foreign defense systems.

17          “(G) An assessment of the defense  
18      nanotechnology manufacturing and industrial base  
19      and its capability to meet the near and far term re-  
20      quirements of the Department.

21          “(H) Such recommendations for additional ac-  
22      tivities under the program to meet emerging na-  
23      tional security requirements as the Under Secretary  
24      considers appropriate.

1       “(3) Each report under paragraph (1) shall be sub-  
2       mitted in unclassified form, but may include a classified  
3       annex.”.

4       (e) COMPTROLLER GENERAL REPORT ON PRO-  
5       GRAM.—Not later than March 31, 2010, the Comptroller  
6       General of the United States shall submit to the congres-  
7       sional defense committees a report setting forth the as-  
8       sessment of the Comptroller General of the progress made  
9       by the Department of Defense in achieving the purposes  
10      of the defense nanotechnology research and development  
11      program required by section 246 of the Bob Stump Na-  
12      tional Defense Authorization Act for Fiscal Year 2003 (as  
13      amended by this section).

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