

1 **SEC. 142. AUTHORITY FOR EXPLOSIVE ORDNANCE DIS-**
2 **POSAL UNITS TO ACQUIRE NEW OR EMERG-**
3 **ING TECHNOLOGIES AND CAPABILITIES.**

4 *The Secretary of Defense may provide Explosive Ord-*
5 *nance Disposal (EOD) units with the authority to acquire*
6 *new or emerging EOD technologies and capabilities that are*
7 *not specifically listed on the Table of Allowance (TOA) or*
8 *Table of Equipment (TOE).*

9 **TITLE II—RESEARCH, DEVELOP-**
10 **MENT, TEST, AND EVALUA-**
11 **TION**

12 **Subtitle A—Authorization of**
13 **Appropriations**

14 **SEC. 201. AUTHORIZATION OF APPROPRIATIONS.**

15 *Funds are hereby authorized to be appropriated for fis-*
16 *cal year 2018 for the use of the Department of Defense for*
17 *research, development, test, and evaluation as specified in*
18 *the funding table in section 4201.*

19 **Subtitle B—Program Requirements,**
20 **Restrictions, and Limitations**

21 **SEC. 211. MECHANISMS FOR EXPEDITED ACCESS TO TECH-**
22 **NICAL TALENT AND EXPERTISE AT ACADEMIC**
23 **INSTITUTIONS TO SUPPORT DEPARTMENT OF**
24 **DEFENSE MISSIONS.**

25 *(a) ARRANGEMENTS AUTHORIZED.—*

1 (1) *IN GENERAL.*—*The Secretary of Defense may*
2 *establish one or more multi-institution task order con-*
3 *tracts, consortia, cooperative agreements, or other ar-*
4 *rangements to facilitate expedited access to university*
5 *technical expertise, including faculty, staff, and stu-*
6 *dents, in support of Department of Defense missions*
7 *in the areas specified in subsection (e).*

8 (2) *USE FOR TECHNICAL ANALYSES AND ENGI-*
9 *NEERING SUPPORT.*—*The Secretary may use an ar-*
10 *rrangement under paragraph (1) to fund technical*
11 *analyses and other engineering support as required to*
12 *address acquisition and operational challenges, in-*
13 *cluding support for classified programs and activities.*

14 (3) *PERFORMANCE BY DESIGNATED UNIVERSITY*
15 *PERFORMER.*—*The Secretary shall ensure that work*
16 *awarded through an arrangement under paragraph*
17 *(1) is performed primarily by the designated univer-*
18 *sity performer.*

19 (b) *LIMITATION.*—*An arrangement established under*
20 *subsection (a)(1) may not be used to fund research pro-*
21 *grams that can be executed through other Department of*
22 *Defense basic research activities.*

23 (c) *CONSULTATION WITH OTHER DEPARTMENT OF*
24 *DEFENSE ACTIVITIES.*—*An arrangement established under*
25 *subsection (a)(1) shall, to the degree practicable, be made*

1 *in consultation with other Department of Defense activities,*
2 *including federally funded research and development centers*
3 *(FFRDCs), university affiliated research centers (UARCs),*
4 *and Defense laboratories and test centers, for purposes of*
5 *providing technical expertise and reducing costs and dupli-*
6 *cative efforts.*

7 *(d) POLICIES AND PROCEDURES.—If the Secretary es-*
8 *tablishes one or more arrangements under subsection (a)(1),*
9 *the Secretary shall establish and implement policies and*
10 *procedures to govern—*

11 *(1) selection of participants in the arrangement*
12 *or arrangements;*

13 *(2) the awarding of task orders under the ar-*
14 *rangement or arrangements;*

15 *(3) maximum award size for tasks under the ar-*
16 *rangement or arrangements;*

17 *(4) the appropriate use of competitive awards*
18 *and sole source awards under the arrangement or ar-*
19 *rangements; and*

20 *(5) technical areas under the arrangement or ar-*
21 *rangements.*

22 *(e) MISSION AREAS.—The areas specified in this sub-*
23 *section are as follows:*

24 *(1) Cybersecurity.*

25 *(2) Air and ground vehicles.*

- 1 (3) *Shipbuilding.*
- 2 (4) *Explosives detection and defeat.*
- 3 (5) *Undersea warfare.*
- 4 (6) *Trusted electronics.*
- 5 (7) *Unmanned systems.*
- 6 (8) *Directed energy.*
- 7 (9) *Energy, power, and propulsion.*
- 8 (10) *Management science and operations re-*
- 9 *search.*
- 10 (11) *Artificial intelligence.*
- 11 (12) *Data analytics.*
- 12 (13) *Business systems.*
- 13 (14) *Technology transfer and transition.*
- 14 (15) *Biological engineering and genetic enhance-*
- 15 *ment.*
- 16 (16) *High performance computing.*
- 17 (17) *Materials science and engineering.*
- 18 (18) *Quantum information sciences.*
- 19 (19) *Special operations activities.*
- 20 (20) *Modeling and simulation.*
- 21 (21) *Autonomous systems.*
- 22 (22) *Model based engineering.*
- 23 (23) *Such other areas as the Secretary considers*
- 24 *appropriate.*

1 (f) *SUNSET.*—*The authorities under this section shall*
2 *expire on September 30, 2020.*

3 (g) *ARRANGEMENTS ESTABLISHED UNDER SUB-*
4 *SECTION (A)(1) DEFINED.*—*In this section, the term “ar-*
5 *angement established under subsection (a)(1)” means a*
6 *multi-institution task order contract, consortia, cooperative*
7 *agreement, or other arrangement established under sub-*
8 *section (a)(1).*

9 **SEC. 212. CODIFICATION AND ENHANCEMENT OF AUTHORI-**
10 **TIES TO PROVIDE FUNDS FOR DEFENSE LAB-**
11 **ORATORIES FOR RESEARCH AND DEVELOP-**
12 **MENT OF TECHNOLOGIES FOR MILITARY MIS-**
13 **SIONS.**

14 (a) *IN GENERAL.*—*Chapter 139 of title 10, United*
15 *States Code, is amended by inserting after section 2362 the*
16 *following new section:*

17 **“§ 2363. Mechanisms to provide funds for defense lab-**
18 **oratories for research and development of**
19 **technologies for military missions**

20 **“(a) MECHANISMS TO PROVIDE FUNDS.—(1) The Sec-**
21 *retary of Defense, in consultation with the Secretaries of*
22 *the military departments, shall establish mechanisms under*
23 *which the director of a defense laboratory may use an*
24 *amount of funds equal to not less than two percent and*

1 *not more than four percent of all funds available to the de-*
2 *fense laboratory for the following purposes:*

3 “(A) *To fund innovative basic and applied re-*
4 *search that is conducted at the defense laboratory and*
5 *supports military missions.*

6 “(B) *To fund development programs that sup-*
7 *port the transition of technologies developed by the de-*
8 *fense laboratory into operational use.*

9 “(C) *To fund workforce development activities*
10 *that improve the capacity of the defense laboratory to*
11 *recruit and retain personnel with necessary scientific*
12 *and engineering expertise that support military mis-*
13 *sions.*

14 “(D) *To fund the revitalization recapitalization,*
15 *or minor military construction of the laboratory in-*
16 *frastructure and equipment, in accordance with sub-*
17 *section (b).*

18 “(2) *The mechanisms established under paragraph (1)*
19 *shall provide that funding shall be used under paragraph*
20 *(1) at the discretion of the director of a defense laboratory*
21 *in consultation with the science and technology executive*
22 *of the military department concerned.*

23 “(3) *After consultation with the science and technology*
24 *executive of the military department concerned, the director*
25 *of a defense laboratory may charge customer activities a*

1 *fixed percentage fee, in addition to normal costs of perform-*
2 *ance, in order to obtain funds to carry out activities author-*
3 *ized by this subsection. The fixed fee may not exceed four*
4 *percent of costs.*

5 “(b) *AVAILABILITY OF FUNDS FOR INFRASTRUCTURE*
6 *PROJECTS.—(1) Subject to the provisions of this subsection,*
7 *funds available under a mechanism under subsection*
8 *(a)(1)(D) that are solely intended to carry out a laboratory*
9 *infrastructure project shall be available for such project*
10 *until expended.*

11 “(2) *Funds shall be available in accordance with para-*
12 *graph (1) for a project referred to in such paragraph only*
13 *if the Secretary notifies the congressional defense commit-*
14 *tees of the total cost of the project before the date on which*
15 *the Secretary uses a mechanism under subsection (a)(1)(D)*
16 *for such project.*

17 “(3) *Funds may accumulate under a mechanism*
18 *under subsection (a) for a project referred to in paragraph*
19 *(1) for not more than five years.*

20 “(4) *The Secretary shall ensure that a project referred*
21 *to in paragraph (1) for which funds are made available*
22 *in accordance with such paragraph complies with the ap-*
23 *plicable cost limitations in the following provisions of law:*

24 “(A) *Section 2805(d) of this title, with respect to*
25 *revitalization and recapitalization projects.*

1 “(B) Section 2811 of this title, with respect to
2 *repair projects.*

3 “(C) Section 2802 of this title, with respect to
4 *construction projects that exceed the cost specified in*
5 *subsection (a)(2) of section 2805 of this title for cer-*
6 *tain unspecified minor military construction projects*
7 *for laboratories.*

8 “(c) ANNUAL REPORT ON USE OF AUTHORITY.—Not
9 *later than March 1 of each year, the Secretary of Defense*
10 *shall submit to the congressional defense committees a re-*
11 *port on the use of the authority under subsection (a) during*
12 *the preceding year.”.*

13 (b) CLERICAL AMENDMENT.—*The table of sections at*
14 *the beginning of chapter 139 of such title is amended by*
15 *inserting after the item relating to section 2362 the fol-*
16 *lowing new item:*

“2363. Mechanisms to provide funds for defense laboratories for research and de-
velopment of technologies for military missions.”.

17 (c) CONFORMING AMENDMENTS.—(1) *Section 219 of*
18 *the Duncan Hunter National Defense Authorization Act for*
19 *Fiscal Year 2009 (Public Law 110–417; 10 U.S.C. 2358*
20 *note), is hereby repealed.*

21 (2) *Section 2805(d)(1)(B) of title 10, United States*
22 *Code, is amended by striking “under section 219(a) of the*
23 *Duncan Hunter National Defense Authorization Act for*

1 *Fiscal Year 2009 (Public Law 110–417; 10 U.S.C. 2358*
2 *note)*” and inserting “*section 2363(a) of this title*”.

3 **SEC. 213. MODIFICATION OF LABORATORY QUALITY EN-**
4 **HANCEMENT PROGRAM.**

5 (a) *IN GENERAL.*—*Section 211 of the National Defense*
6 *Authorization Act for Fiscal Year 2017 (Public Law 114–*
7 *328) is amended—*

8 (1) *in subsection (a)(1)—*

9 (A) *in subparagraph (A), by striking “;*
10 *and” and inserting a semicolon;*

11 (B) *in subparagraph (B), by striking the*
12 *semicolon and inserting “; and”;* and

13 (C) *by adding at the end the following new*
14 *subparagraph:*

15 “(C) *new interpretations of existing statutes*
16 *and regulations that would enhance the ability of*
17 *a director of a science and technology reinven-*
18 *tion laboratory to manage the facility and dis-*
19 *charge the mission of the laboratory;”;*

20 (2) *in subsection (d), by adding at the end the*
21 *following new paragraph:*

22 “(3)(A) *Each panel described in paragraph (1), (2),*
23 *or (3) of subsection (b) shall submit to the panel described*
24 *in paragraph (4) of such subsection (relating to governance*
25 *and oversight processes) the following:*



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