

Table INV-3

## Federal laboratory technology transfer activity indicators, by selected departments and agencies: FY 2016

(Number)

Technology transfer activity	All reporting federal agencies and departments	DOD	DOE	NASA	USDA	DOC	DHS
Total startups supported <sup>a</sup>	na	na	na	19	na	51	0
Invention disclosures and patenting							
Inventions disclosed	5,086	874	1,760	1,554	244	64	17
Patent applications	2,596	941	999	129	109	25	15
Patents issued	2,341	665	856	103	60	16	3
Licensing							
All licenses, total active in the fiscal year	8,950	515	5,410	452	441	57	5
Invention licenses, total active in the fiscal year	4,156	358	943	387	370	57	5
New invention licenses in the fiscal year	572	57	145	97	27	15	1
Collaborative relationships for R&D							
CRADAs, total active in the fiscal year	11,644	3,125	739	12	238	2,940	343
Traditional CRADAs	6,720	2,297	739	12	161	335	272
Other collaborative R&D relationships	18,472	452	0	2,204	11,854	3,273	71

na = not applicable; data not reported at this level.

CRADA = Cooperative R&amp;D Agreement; DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; NASA = National Aeronautics and Space Administration; USDA = Department of Agriculture.

<sup>a</sup> Startups are companies that have been in existence for 5 years or less.**Note(s):**

In addition to the federal departments and agencies listed in the table, the "All reporting federal agencies and departments" totals also include the Department of Health and Human Services, the Department of the Interior, the Department of Transportation, the Department of Veterans Affairs, and the Environmental Protection Agency. Invention licenses refer to inventions that are patented or could be patented. CRADAs refer to all agreements executed under CRADA authority (15 U.S.C. 3710a). Traditional CRADAs are collaborative R&D partnerships between a federal laboratory and one or more nonfederal organizations. In addition to CRADAs, federal agencies have varying authorities for other kinds of collaborative R&D relationships, such as Space Act Agreements (NASA) or other transaction authorities. Agency support for startups is defined as critical technical support (NIST 2019).

**Source(s):**

National Institute of Standards and Technology (NIST), U.S. Department of Commerce, *Federal Laboratory Technology Transfer, Fiscal Year 2016: Summary Report to the President and the Congress* (2019), accessed 10 January 2021.

*Science and Engineering Indicators*