

**Table 1****Federal obligations for research and experimental development and for R&D plant, by type of performer and type of agreement: FYs 2021–22**

(Millions of dollars)

Type of performer and type of agreement	2021	2022	% change FY 2021–22
Obligations for R&D and R&D plant	193,896	196,595	1.4
R&D	189,614	190,422	0.4
Performer			
Intramural <sup>a</sup>	87,617	86,161	-1.7
Extramural <sup>b</sup>	101,997	104,263	2.2
Contracts and other transactions	50,971	51,882	1.8
Grants and cooperative agreements	51,026	52,379	2.7
R&D plant	4,282	6,173	44.2
Performer			
Intramural <sup>a</sup>	2,902	4,533	56.2
Extramural <sup>b</sup>	1,379	1,640	18.9
Contracts and other transactions	824	1,015	23.2
Grants and cooperative agreements	556	626	12.5

<sup>a</sup> Intramural includes federal agencies' activities and costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance and obligations to federally funded research and development centers.

<sup>b</sup> Extramural includes business, higher education institutions, nonprofit institutions, state and local governments, and non-U.S. performers.

**Note(s):**

Because of rounding, detail may not add to total. Percentages are computed using actual dollars reported. FYs 2021 and 2022 data include obligations from supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act).

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.