

Table 4**U.S. business R&D performed, by selected industry and technology focus: 2021**

(Millions of dollars)

Industry	Domestic R&D	Technology focus of domestic R&D							
		Software products and embedded software		Biotechnology		Nanotechnology		Artificial intelligence	
All industries, 21–33, 42–81	602,499	257,030	i	102,513		32,718	i	28,875	i
Manufacturing industries, 31–33	326,060	50,012		85,389		27,805	i	10,716	i
Machinery, 333	17,730	2,392		114	i	2,318		834	
Semiconductor machinery, 333242	5,349	768		54		2,279		581	
Computer and electronic products, 334	101,063	32,906		2,344	i	23,907	i	6,874	i
Semiconductor and other electronic components, 3344	47,396	9,270	i	41		23,549	i	4,115	i
Nonmanufacturing industries, 21–23, 42–81	276,439	207,017	i	17,123	i	4,913	i	18,159	i

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2017 North American Industry Classification System.

Note(s):

Data are for companies with 10 or more domestic employees. Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Companies could report R&D in one, more than one, or no application area.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2021.