Table 1

U.S. R&D performed, by semiconductor manufacturing and other selected industries: 2017–21

(Millions of dollars)

Industry and NAICS code	2017	2018	2019	2020	2021
All industries, 21–33, 42–81	396,979	443,633	491,434	538,870	602,499
Manufacturing industries, 31–33	255,602	274,315	284,673	309,021	326,060
Machinery, 333	13,341	14,770	15,182	16,243	17,730
Semiconductor machinery, 333242	3,737	4,166	4,459	4,809	5,349
Computer and electronic products, 334	78,003	83,948	85,571	99,523	101,063
Semiconductor and other electronic components, 3344	30,373	30,232 - 43,377	35,178	43,184	47,396
Nonmanufacturing industries, 21–23, 42–81	141,377	169,318	206,761	229,849	276,439

NAICS = North American Industry Classification System.

Note(s):
Data are for companies with 10 or more domestic employees. Excludes data for federally funded research and development centers. 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. Statistics are representative of companies located in the United States that performed or funded $50,000 or more of R&D. For survey years 2014–19, industry classification was based on the 2012 NAICS. For survey years beginning in 2020, classification was based on the 2017 NAICS. Most statistics for years prior to 2020 have been revised since original publication. Revised statistics include adjustments based on information obtained after the original statistics were prepared. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey.