

**Table 23. State agency R&D intramural personnel, by state department or agency, headcount, and full-time equivalent: FY 2024**

(Number)

State and department or agency	R&D personnel headcount				R&D personnel (full-time equivalent)			
	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
United States <sup>b</sup>	10,063	5,623	3,094	1,346	6,491.3	3,789.8	1,804.3	897.2
Alabama	121	56	42	23	92.5	49.3	25.1	18.1
Education, Department of	51	13	32	6	24.6	6.3	15.8	2.5
Forensic Sciences, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Geological Survey	34	28	2	4	31.9	28.0	1.3	2.6
Marine Environmental Science Consortium, Dauphin Island Sea Lab	30	13	8	9	30.0	13.0	8.0	9.0
Transportation, Department of	4	0	0	4	4.0	0.0	0.0	4.0
Alaska	93	54	26	13	76.0	50.9	16.9	8.2
Environmental Conservation, Department of	6	1	1	4	0.4	0.1	0.1	0.2
Natural Resources, Department of; Division of Geological and Geophysical Surveys	66	45	14	7	66.0	45.0	14.0	7.0
Railroad Corporation	14	6	6	2	7.8	4.0	2.8	1.0
Transportation and Public Facilities, Department of	7	2	5	0	1.8	1.8	0.0	0.0
Arizona	47	29	10	8	40.1	22.6	10.0	7.5
Game and Fish Department	32	22	6	4	26.6	17.1	6.0	3.5
Juvenile Corrections, Department of	3	3	0	0	1.5	1.5	0.0	0.0
Transportation, Department of	12	4	4	4	12.0	4.0	4.0	4.0
Arkansas	133	80	30	23	59.3	30.0	17.3	12.0
Game and Fish Commission	120	80	25	15	49.0	30.0	15.0	4.0
Transportation, Department of	13	0	5	8	10.3	0.0	2.3	8.0
California	738	609	26	103	574.1	480.6	8.4	85.1
Air Resources Board	82	70	3	9	81.4	70.0	2.4	9.0
Conservation, Department of	50	39	8	3	18.5	16.2	2.0	0.3
Covered California	25	23	0	2	15.0	13.8	0.0	1.2
Earthquake Authority	2	2	0	0	1.0	1.0	0.0	0.0
Emergency Services Governor's Office	1	0	0	1	1.0	0.0	0.0	1.0
Energy Commission	156	126	0	30	156.0	126.0	0.0	30.0
Environmental Health Hazard Assessment, Office of	133	98	0	35	123.4	91.5	0.0	31.9
First 5 California	1	1	0	0	1.0	1.0	0.0	0.0
Forestry and Fire Protection, Department of	28	12	12	4	10.0	5.0	1.0	4.0
Housing and Community Development, Department of	5	5	0	0	1.5	1.5	0.0	0.0
Motor Vehicles, Department of	17	13	0	4	16.1	13.0	0.0	3.1
Pesticide Regulation, Department of	91	82	0	9	41.2	40.0	0.0	1.2
Public Health, Department of	13	10	0	3	11.0	8.0	0.0	3.0
State Water Resources Control Board	33	30	0	3	12.5	12.1	0.0	0.4
Toxic Substances Control, Department of	18	18	0	0	1.5	1.5	0.0	0.0
Transportation, Department of	82	79	3	0	82.0	79.0	3.0	0.0
Water Resources, Department of	1	1	0	0	1.0	1.0	0.0	0.0

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Colorado	93	65	26	2	66.0	54.5	10.2	1.3
Agriculture, Department of	23	2	21	0	8.9	1.0	7.9	0.0
Natural Resources, Department of	41	35	5	1	28.3	25.7	2.3	0.3
Public Health and Environment, Department of	24	24	0	0	23.8	23.8	0.0	0.0
Transportation, Department of	5	4	0	1	5.0	4.0	0.0	1.0
Connecticut	292	199	39	54	182.8	130.1	37.0	15.7
Agricultural Experiment Station	112	64	35	13	112.0	64.0	35.0	13.0
Energy and Environmental Protection, Department of	60	56	4	0	30.0	28.0	2.0	0.0
Mental Health and Addiction Services, Department of	40	39	0	1	33.0	32.0	0.0	1.0
Social Services, Department of	34	34	0	0	2.8	2.8	0.0	0.0
Transportation, Department of	46	6	0	40	5.0	3.3	0.0	1.7
Delaware	19	13	2	4	19.0	13.0	2.0	4.0
Geological Survey	19	13	2	4	19.0	13.0	2.0	4.0
District of Columbia	30	15	9	6	17.1	8.5	6.1	2.5
Health, Department of	22	10	6	6	10.6	4.0	4.1	2.5
Transportation, Department of	4	1	3	0	3.0	1.0	2.0	0.0
Water and Sewer Authority	4	4	0	0	3.5	3.5	0.0	0.0
Florida	926	727	65	134	791.8	627.0	45.2	119.6
Agriculture and Consumer Services, Department of	7	3	3	1	7.0	3.0	3.0	1.0
Citrus, Department of	1	1	0	0	0.0	0.0	0.0	0.0
Fish and Wildlife Conservation Commission	895	716	50	129	767.0	618.0	34.0	115.0
Transportation, Department of	23	7	12	4	17.8	6.0	8.2	3.6
Georgia	9	6	1	2	7.8	5.1	1.0	1.7
Natural Resources, Department of	2	2	0	0	1.5	1.5	0.0	0.0
Southern States Energy Board	7	4	1	2	6.3	3.6	1.0	1.7
Hawaii	10	3	1	6	4.7	1.3	0.2	3.2
Agriculture, Department of	8	3	1	4	2.7	1.3	0.2	1.2
Business, Economic Development, and Tourism, Department of	2	0	0	2	2.0	0.0	0.0	2.0
Idaho	108	53	44	11	35.0	16.9	13.4	4.7
Fish and Game, Department of	105	52	44	9	32.0	15.9	13.4	2.7
Mint Commission	1	1	0	0	1.0	1.0	0.0	0.0
Transportation Department	2	0	0	2	2.0	0.0	0.0	2.0
Illinois	5	2	1	2	3.4	1.8	0.8	0.8
Transportation, Department of	5	2	1	2	3.4	1.8	0.8	0.8
Indiana	123	56	49	18	32.0	21.2	8.9	1.9
Natural Resources, Department of	93	46	35	12	16.6	11.2	4.9	0.5
Transportation, Department of	30	10	14	6	15.4	10.0	4.0	1.4

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	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Iowa	36	21	13	2	17.7	11.0	6.2	0.5
Management, Department of Data; Division of Planning and Improvement	6	4	0	2	3.0	2.5	0.0	0.5
Natural Resources, Department of	30	17	13	0	14.7	8.5	6.2	0.0
Kansas	181	82	81	18	36.6	22.3	9.1	5.2
State Board of Regents	2	2	0	0	0.1	0.1	0.0	0.0
Transportation, Department of	16	8	4	4	16.0	8.0	4.0	4.0
Water Office	7	5	0	2	3.0	2.0	0.0	1.0
Wildlife and Parks, Department of	156	67	77	12	17.5	12.2	5.1	0.2
Kentucky	279	155	117	7	18.3	13.4	4.5	0.4
Fish and Wildlife Resources, Department of	279	155	117	7	18.3	13.4	4.5	0.4
Louisiana	308	164	85	59	54.5	31.5	18.0	5.0
Coastal Protection and Restoration Authority	11	7	0	4	7.5	6.5	0.0	1.0
Transportation and Development, Department of	27	12	12	3	27.0	12.0	12.0	3.0
Wildlife and Fisheries, Department of	270	145	73	52	20.0	13.0	6.0	1.0
Maine	150	104	35	11	77.5	37.7	30.1	9.7
Agriculture, Conservation and Forestry, Department of	15	10	4	1	10.8	8.8	2.0	0.0
Aquaculture Innovation Center	5	3	2	0	4.3	2.6	1.7	0.0
Inland Fisheries and Wildlife, Department of	68	68	0	0	5.6	5.6	0.0	0.0
Marine Resources, Department of	4	2	2	0	4.0	2.0	2.0	0.0
MDI Biological Laboratory, Center for Biomedical Innovation	53	18	25	10	49.6	16.6	23.3	9.7
Transportation, Department of	5	3	2	0	3.2	2.1	1.1	0.0
Maryland	20	2	11	7	12.9	0.0	7.9	5.0
Transportation, Department of	20	2	11	7	12.9	0.0	7.9	5.0
Massachusetts	46	24	18	4	15.6	10.9	3.7	1.0
Environmental Protection, Department of	34	14	16	4	7.0	3.0	3.0	1.0
Fish and Game, Department of	2	1	1	0	0.6	0.1	0.5	0.0
Gaming Commission	2	2	0	0	1.6	1.6	0.0	0.0
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Water Resources Authority	2	1	1	0	0.4	0.2	0.2	0.0
Michigan	3	2	0	1	1.7	1.5	0.0	0.2
Agriculture and Rural Development, Department of	1	1	0	0	0.5	0.5	0.0	0.0
Environmental, Great Lakes, and Energy, Department of	2	1	0	1	1.2	1.0	0.0	0.2
Minnesota	113	64	27	22	52.8	24.6	14.1	14.1
Agriculture, Department of	30	11	15	4	9.6	3.0	5.6	1.0
Employment and Economic Development, Department of	4	3	0	1	1.8	1.5	0.0	0.3
Forest Resources Council	1	1	0	0	0.3	0.3	0.0	0.0
Labor and Industry, Department of	7	7	0	0	6.5	6.5	0.0	0.0

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	Total	Researchers <sup>a</sup>	Technicians	Support staff	Total	Researchers <sup>a</sup>	Technicians	Support staff
Natural Resources, Department of	48	37	7	4	12.1	8.3	3.5	0.3
Transportation, Department of	23	5	5	13	22.5	5.0	5.0	12.5
Mississippi	30	21	5	4	23.2	15.3	3.9	4.0
Gulf States Marine Fisheries Commission	1	1	0	0	1.0	1.0	0.0	0.0
Marine Resources, Department of	11	9	2	0	4.2	3.3	0.9	0.0
Transportation, Department of	6	2	0	4	6.0	2.0	0.0	4.0
Wildlife, Fisheries, and Parks, Department of	12	9	3	0	12.0	9.0	3.0	0.0
Missouri	221	79	133	9	100.0	59.0	38.0	3.0
Conservation, Department of	218	77	133	8	98.0	58.0	38.0	2.0
Wine and Grape Board	3	2	0	1	2.0	1.0	0.0	1.0
Montana	65	25	34	6	17.1	5.2	9.6	2.3
Environmental Quality, Department of	10	4	6	0	5.0	2.0	3.0	0.0
Fish, Wildlife and Parks, Department of	50	21	26	3	9.4	3.2	5.2	1.0
Transportation, Department of	5	0	2	3	2.7	0.0	1.4	1.3
Nebraska	98	55	40	3	12.0	6.3	3.2	2.5
Game and Parks Commission	88	54	32	2	10.5	6.0	3.0	1.5
Transportation, Department of	10	1	8	1	1.5	0.3	0.2	1.0
Nevada	14	7	6	1	3.0	1.4	1.3	0.3
Agriculture, Department of	3	1	2	0	1.2	0.4	0.8	0.0
Conservation and Natural Resources, Department of	11	6	4	1	1.8	1.0	0.5	0.3
New Hampshire	15	1	3	11	1.2	1.0	0.1	0.1
Transportation, Department of	15	1	3	11	1.2	1.0	0.1	0.1
New Jersey	46	42	1	3	21.1	18.6	0.5	2.0
Children and Families, Department of	10	10	0	0	1.6	1.6	0.0	0.0
Corrections, Department of	4	4	0	0	4.0	4.0	0.0	0.0
Environmental Protection, Department of	25	22	1	2	12.5	11.0	0.5	1.0
Pinelands Commission	5	5	0	0	1.0	1.0	0.0	0.0
State Parole Board	2	1	0	1	2.0	1.0	0.0	1.0
New Mexico	34	17	2	15	9.3	5.0	0.5	3.8
Game and Fish, Department of	29	17	2	10	7.0	5.0	0.5	1.5
Transportation, Department of	5	0	0	5	2.3	0.0	0.0	2.3
New York	2,911	1,307	1,195	409	2,357.1	1,011.9	963.1	382.1
Agriculture and Markets, Department of	13	12	1	0	7.0	6.0	1.0	0.0
Energy Research and Development Authority	33	20	0	13	27.0	20.0	0.0	7.0
Environmental Conservation, Department of	59	48	11	0	26.5	20.7	5.8	0.0
Health, Department of	336	236	61	39	248.6	168.3	46.6	33.7
Mental Health, Office of	1,314	515	618	181	1,009.0	365.0	469.0	175.0

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People with Developmental Disabilities, Office of	26	17	2	7	18.4	10.3	1.8	6.3
Power Authority	13	11	0	2	13.0	11.0	0.0	2.0
Roswell Park Comprehensive Cancer Center	1,033	422	450	161	924.7	384.6	388.0	152.1
State Museum	78	22	52	4	76.9	22.0	50.9	4.0
Transportation, Department of	6	4	0	2	6.0	4.0	0.0	2.0
North Carolina	223	109	81	33	189.3	91.9	68.7	28.7
Agriculture and Consumer Services, Department of	141	67	57	17	141.0	67.0	57.0	17.0
Environmental Quality, Department of	27	9	12	6	19.5	7.8	5.7	6.0
Natural and Cultural Resources, Department of	46	26	12	8	20.8	11.1	6.0	3.7
Transportation, Department of	9	7	0	2	8.0	6.0	0.0	2.0
North Dakota	14	12	1	1	14.0	12.0	1.0	1.0
Game and Fish, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Historical Society of North Dakota	10	8	1	1	10.0	8.0	1.0	1.0
Transportation, Department of	2	2	0	0	2.0	2.0	0.0	0.0
Ohio	69	35	29	5	43.7	33.2	7.4	3.1
Education and Workforce, Department of	2	2	0	0	0.2	0.2	0.0	0.0
Mental Health and Addictions Services, Department of	21	13	8	0	13.0	13.0	0.0	0.0
Natural Resources, Department of	46	20	21	5	30.5	20.0	7.4	3.1
Oklahoma	21	12	6	3	12.5	7.5	3.5	1.5
Grand River Dam Authority	6	3	2	1	2.3	1.0	1.0	0.3
Health, Department of	10	5	4	1	5.2	2.5	2.5	0.2
Transportation, Department of	4	3	0	1	4.0	3.0	0.0	1.0
Wildlife Conservation, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Oregon	274	104	149	21	131.4	62.4	62.3	6.7
Education, Department of	4	2	0	2	0.0	0.0	0.0	0.0
Fish and Wildlife, Department of	208	63	136	9	98.9	37.4	57.8	3.7
Forestry, Department of	20	5	10	5	8.5	5.0	2.5	1.0
Geology and Mineral Industries, Department of	21	16	2	3	8.5	6.0	1.5	1.0
Transportation, Department of	7	5	1	1	2.0	1.0	0.5	0.5
Water Resources Department	13	13	0	0	13.0	13.0	0.0	0.0
Watershed Enhancement Board	1	0	0	1	0.5	0.0	0.0	0.5
Pennsylvania	158	79	68	11	120.3	56.9	56.3	7.1
Conservation and Natural Resources, Department of	2	1	1	0	1.2	0.4	0.8	0.0
Environmental Protection, Department of	6	6	0	0	0.5	0.5	0.0	0.0
Fish and Boat Commission	17	12	5	0	0.7	0.5	0.2	0.0
Game Commission	117	55	55	7	117.0	55.0	55.0	7.0
Susquehanna River Basin Commission	16	5	7	4	0.9	0.5	0.3	0.1

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Rhode Island	6	3	2	1	4.0	2.5	1.0	0.5
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	3	2	1	0	2.5	2.0	0.5	0.0
Transportation, Department of	3	1	1	1	1.5	0.5	0.5	0.5
South Carolina	386	196	145	45	261.5	153.8	81.0	26.7
Health and Environmental Control, Department of	17	4	3	10	7.5	3.0	3.0	1.5
Natural Resources, Department of	318	161	131	26	224.0	129.0	78.0	17.0
Sea Grant Consortium	38	20	11	7	27.0	20.0	0.0	7.0
Transportation, Department of	13	11	0	2	3.0	1.8	0.0	1.2
South Dakota	7	6	0	1	6.5	6.0	0.0	0.5
Soybean Research and Promotion Council	1	0	0	1	0.5	0.0	0.0	0.5
Transportation, Department of	6	6	0	0	6.0	6.0	0.0	0.0
Tennessee	0	0	0	0	0.0	0.0	0.0	0.0
Texas	34	16	6	12	21.6	11.8	5.4	4.4
Animal Health Commission	3	2	1	0	1.9	1.5	0.4	0.0
Environmental Quality, Commission on	6	0	0	6	0.6	0.0	0.0	0.6
Parks and Wildlife Department	25	14	5	6	19.1	10.3	5.0	3.8
Utah	68	45	12	11	38.3	29.3	7.0	2.0
Environmental Quality, Department of	1	1	0	0	0.3	0.3	0.0	0.0
Natural Resources, Department of	60	40	10	10	31.0	25.0	5.0	1.0
Transportation, Department of	7	4	2	1	7.0	4.0	2.0	1.0
Vermont	15	11	4	0	4.4	3.6	0.8	0.0
Human Services, Agency of	10	7	3	0	2.7	1.9	0.8	0.0
Transportation, Agency of	5	4	1	0	1.7	1.7	0.0	0.0
Virginia	412	263	93	56	325.3	234.2	58.2	32.9
Education, Department of	5	3	1	1	2.5	1.5	0.5	0.5
Energy, Department of	35	22	7	6	21.7	16.8	3.5	1.4
Environmental Quality, Department of	3	3	0	0	0.3	0.3	0.0	0.0
Forensic Science, Department of	11	9	2	0	7.0	6.0	1.0	0.0
Forestry, Department of	13	1	12	0	11.2	1.0	10.2	0.0
Innovation Partnership Authority	10	1	0	9	10.0	1.0	0.0	9.0
Marine Resources Commission	2	1	1	0	2.0	1.0	1.0	0.0
Natural History, Museum of	10	6	3	1	9.5	6.0	3.0	0.5
Rail and Public Transportation	1	1	0	0	0.8	0.8	0.0	0.0
Social Services, Department of	18	6	10	2	17.0	6.0	10.0	1.0
Transportation, Department of	81	37	19	25	54.8	33.8	7.0	14.0
Wildlife Resources, Department of	223	173	38	12	188.5	160.0	22.0	6.5
Washington	864	454	295	115	315.9	165.4	117.8	32.7

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Ecology, Department of	46	21	21	4	17.8	5.5	9.8	2.5
Fish and Wildlife, Department of	669	339	241	89	172.0	83.0	78.0	11.0
Health, Department of	11	7	2	2	6.9	4.8	1.0	1.1
Labor and Industries, Department of	28	24	0	4	28.0	24.0	0.0	4.0
Natural Resources, Department of	88	54	25	9	73.2	41.1	25.0	7.1
Puget Sound Partnership	2	2	0	0	1.0	1.0	0.0	0.0
Transportation, Department of	8	4	0	4	7.0	3.0	0.0	4.0
Tree Fruit Research Commission	12	3	6	3	10.0	3.0	4.0	3.0
West Virginia	74	50	9	15	68.0	47.8	9.0	11.2
Agriculture, Department of	6	3	0	3	6.0	3.0	0.0	3.0
Geological and Economic Survey	28	20	3	5	28.0	20.0	3.0	5.0
Higher Education Policy Commission	3	0	0	3	1.2	0.0	0.0	1.2
Justice and Community Services, Division of Administrative Services	6	6	0	0	6.0	6.0	0.0	0.0
Natural Resources, Division of	30	20	6	4	25.8	17.8	6.0	2.0
Transportation, Department of	1	1	0	0	1.0	1.0	0.0	0.0
Wisconsin	77	72	0	5	72.5	67.5	0.0	5.0
Natural Resources, Department of	23	23	0	0	18.5	18.5	0.0	0.0
Transportation, Department of	54	49	0	5	54.0	49.0	0.0	5.0
Wyoming	44	17	17	10	28.9	14.6	8.6	5.7
Enhanced Oil Recovery Institute	9	4	3	2	3.4	1.6	1.5	0.3
Game and Fish Department	13	2	8	3	5.5	2.0	3.1	0.4
State Geological Survey	19	11	3	5	19.0	11.0	3.0	5.0
Transportation, Department of	3	0	3	0	1.0	0.0	1.0	0.0
Puerto Rico <sup>c</sup>	231	91	87	53	202.4	82.0	73.6	46.8
Comprehensive Cancer Center	139	60	55	24	135.0	57.0	55.0	23.0
Health, Department of	30	8	10	12	30.0	8.0	10.0	12.0
Institute of Statistics	38	8	22	8	21.4	6.0	8.6	6.8
Science, Technology and Research Trust	24	15	0	9	16.0	11.0	0.0	5.0

<sup>a</sup> Researchers includes R&D scientists and engineers and their managers.<sup>b</sup> U.S. total reflects all 50 states and the District of Columbia.<sup>c</sup> Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2024.