



2022 UPDATE



NIH'S ROLE IN SUSTAINING THE U.S. ECONOMY



#keepNIHstrong



A Research and Economic Powerhouse

Each year, researchers supported by the National Institutes of Health (NIH) are responsible for **groundbreaking discoveries and innovations** that change the trajectory of disease treatment in the United States and around the world. Even before discoveries are made, however, those same NIH research grants are fueling America's economy by fueling economic activity and job creation in every state.

Every research dollar that leaves NIH does double duty, and in Fiscal Year 2021, the **\$35.73 billion** awarded to researchers in the 50 U.S. states and the District of Columbia supported **552,444 jobs** and **\$94.18 billion in economic activity**.

AN EXPONENTIAL RETURN ON INVESTMENT



\$1 NIH FUNDED RESEARCH

=



\$2.60

ECONOMIC ACTIVITY



RECENT INCREASES TO THE NIH BUDGET

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
Total NIH appropriations	\$30.311 billion	\$32.311 billion	\$34.300 billion	\$37.311 billion	\$39.313 billion	\$41.636 billion	\$42.936 billion
Total NIH research funds awarded in 50 states + D.C.	\$22.82 billion	\$24.59 billion	\$26.10 billion	\$28.05 billion	\$30.82 billion	\$34.65 billion	\$35.73 billion
Total NIH research grants awarded in 50 states + D.C.	50,808	52,470	54,128	57,110	59,421	61,993	62,996
Total jobs supported nationwide	352,349	379,471	402,816	433,011	475,905	536,338	552,444
Total economic activity nationwide	\$60.717 billion	\$64.799 billion	\$68.795 billion	\$73.909 billion	\$81.220 billion	\$91.350 billion	\$94.180 billion

A note about this data: Since 2011, UMR has provided an analysis of the employment and economic activity attributable to NIH extramural research spending. We rely on the RIMS II model maintained by the Bureau of Economic Analysis, which is part of the U.S. Department of Commerce. This model was last updated by BEA in December 2016. This 2022 update, and each of the previous analyses, was conducted by Dr. Everett Ehrlich of ESC Company.



A Strong NIH Is a National Priority

The strength of the NIH budget today is testament to a strong, bipartisan congressional commitment to keeping the United States at the forefront of biomedical innovation and of finding treatments for our most vexing diseases. Since




2016, champions for medical research in the House and the Senate have ensured steady growth in the NIH budget helping it to regain critical ground lost during a long period of stagnant funding.

Despite upward growth, the NIH budget is not keeping pace with inflation and is not as strong today as it was in 2003. **The need to maintain robust year-over-year increases for the NIH budget is as urgent today as ever.**

MAKING PROGRESS

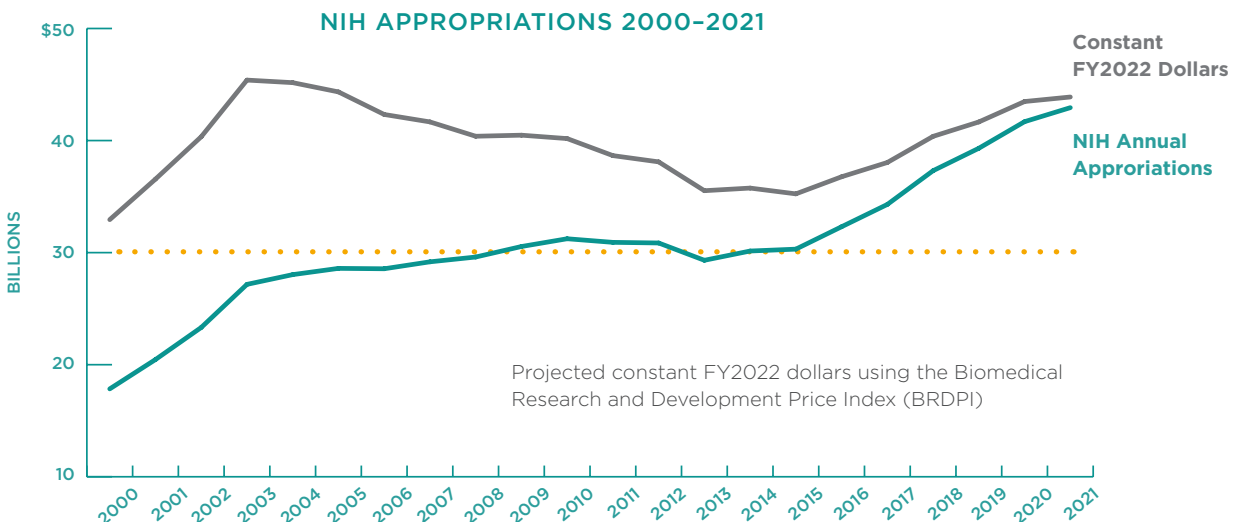
Compared to 2015, increases to the NIH budget in 2021 resulted in

 **\$12.91B**
MORE GRANT FUNDING

 **\$33.46B**
MORE ECONOMIC ACTIVITY

 **200,095**
MORE JOBS

When looking at NIH funding adjusted for inflation, the agency's purchasing power peaked in FY2003 and then declined for more than a decade. Back-to-back funding increases in FY2016 through FY2021 have restored some of that purchasing power. **However, funding in FY2021 was 3.3% below the peak FY2003 program level.** (Source: Congressional Research Service)



Source: Congressional Research Service

Every State Benefits

NIH-funded research supports jobs and fuels new economic activity in every state and D.C. —

552,444 jobs and **\$94.18 billion** last year alone. The income generated by these jobs, as well as by the purchase of research-related equipment, services and materials, when cycled through the economy, produces new economic activity.



SPOTLIGHT DELAWARE

Delaware saw the largest increase in NIH research funding in

FY2021 largely due to a **RADx grant to ANP Technologies** to speed development, commercialization and implementation of technologies for COVID-19 testing. **One of more than 100 companies supported as part of the RADx initiative**, ANP's COVID-19 NIDS® Antigen Rapid Test Kit received Emergency Use Authorization (EUA) from the U.S. Food and Drug Administration in October 2021.

NIH RESEARCH SUPPORTS JOBS



552,444 TOTAL JOBS IN FY2021

26 states with **5,000+** jobs
15 states with **10,000+** jobs

NIH RESEARCH FUELS THE ECONOMY

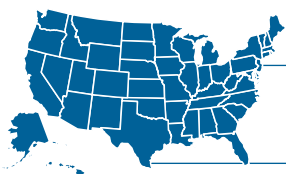


\$94.18 BILLION IN NEW ECONOMIC ACTIVITY IN FY2021

31 states with **\$500M+**
22 states with **\$1B+**

STATES WITH THE LARGEST PERCENT INCREASES FY2020 TO FY2021

AWARD FUNDING		JOBS		ECONOMIC ACTIVITY	
Delaware	64%	Delaware	40.7%	Delaware	40.8%
Mississippi	27%	Mississippi	15%	Mississippi	15.2%
North Dakota	21.5%	Missouri	12.8%	Missouri	12.8%
Alaska	19.5%	New York	12.8%	New York	12.8%
Arkansas	17.7%	North Dakota	11.9%	North Dakota	12.2%



For more information on the state-level impact of NIH research visit [NIH IN YOUR STATE.](#)

Economic Impact of NIH Research by State 2021

State	NIH AWARDS (\$M)	Jobs Created per \$1M NIH Awards	Intrastate Jobs	Added Interstate Activity (%)	Interstate Jobs	TOTAL EMPLOYMENT	ECONOMIC ACTIVITY (\$M)
Alabama	387.81	12.93	5,013	21.5	1,078	6,091	935
Alaska	19.04	11.80	225	118.2	265	490	73
Arizona	311.53	14.97	4,664	38.2	1,781	6,445	950
Arkansas	90.93	12.71	1,156	59.3	686	1,841	256
California	5132.77	13.48	69,172	18.3	12,651	81,823	14,541
Colorado	525.13	15.19	7,979	22.1	1,763	9,742	1,545
Connecticut	691.87	10.16	7,029	14.7	1,031	8,060	1,600
Delaware	89.54	7.96	712	32.4	231	943	221
District of Columbia	243.51	2.52	615	28.3	174	789	474
Florida	795.19	15.95	12,680	44.2	5,604	18,284	2,556
Georgia	747.57	16.65	12,445	25.0	3,108	15,552	2,210
Hawaii	57.37	13.31	764	62.0	474	1,238	182
Idaho	18.38	11.76	216	172.8	373	590	92
Illinois	1116.99	14.32	15,994	23.4	3,737	19,730	3,394
Indiana	367.45	12.93	4,749	36.6	1,740	6,489	1,008
Iowa	214.35	12.16	2,607	36.7	956	3,564	520
Kansas	117.66	11.74	1,381	54.7	756	2,137	351
Kentucky	255.48	12.96	3,311	31.1	1,029	4,339	649
Louisiana	205.99	13.84	2,852	47.2	1,345	4,197	590
Maine	109.65	13.97	1,532	23.4	358	1,890	255
Maryland	2372.54	12.13	28,780	5.9	1,709	30,488	5,476
Massachusetts	3328.28	11.49	38,242	5.8	2,202	40,444	7,837
Michigan	883.42	13.57	11,986	20.2	2,418	14,404	2,311
Minnesota	644.52	12.95	8,350	18.9	1,577	9,926	1,718
Mississippi	58.96	12.58	742	81.5	605	1,347	190
Missouri	785.66	12.14	9,537	14.5	1,379	10,916	1,883
Montana	47.86	13.54	648	44.1	286	934	122
Nebraska	136.86	13.13	1,796	35.7	642	2,438	346
Nevada	38.12	11.97	456	173.5	791	1,248	201
New Hampshire	115.46	10.73	1,239	27.9	346	1,585	291
New Jersey	365.63	12.31	4,500	54.7	2,461	6,961	1,307
New Mexico	117.66	11.77	1,385	34.5	477	1,863	291
New York	3662.42	10.54	38,585	16.2	6,237	44,822	8,919
North Carolina	2411.55	14.60	35,206	7.8	2,754	37,961	5,804
North Dakota	30.09	10.76	324	80.6	261	585	92
Ohio	916.31	13.55	12,414	24.7	3,063	15,478	2,529
Oklahoma	128.26	14.46	1,854	57.8	1,073	2,927	403
Oregon	399.54	13.70	5,473	22.4	1,225	6,698	986
Pennsylvania	2069.15	12.44	25,737	12.4	3,190	28,928	5,286
Rhode Island	247.98	11.13	2,759	9.9	274	3,033	504
South Carolina	224.39	15.11	3,391	37.6	1,276	4,667	645
South Dakota	20.79	12.13	252	108.7	274	527	73
Tennessee	677.47	13.32	9,022	18.4	1,656	10,678	1,756
Texas	1643.83	15.68	25,780	33.4	8,614	34,394	5,399
Utah	260.57	16.75	4,365	22.7	989	5,354	731
Vermont	66.35	12.82	851	20.6	175	1,026	146
Virginia	540.02	11.15	6,020	34.7	2,090	8,110	1,541
Washington	1420.36	12.41	17,626	14.1	2,489	20,115	3,472
West Virginia	49.18	11.44	562	66.5	374	937	140
Wisconsin	559.31	13.22	7,393	23.0	1,698	9,091	1,333
Wyoming	12.84	10.43	134	142.9	191	325	48
50 states plus DC	\$35,733		460,504	20.0%	91,940	552,444	\$94,180

UMR is a coalition of leading research institutions, patient and health advocates and private industry seeking steady and sustainable increases in funding for the National Institutes of Health to save and improve lives, advance innovation and fuel the economy. UMR members include: AdvaMed, Alzheimer's Association, American Association for the Advancement of Science, American Cancer Society Cancer Action Network, Association of American Universities, Association of Public and Land-grant Universities, BD, Boston University, Corning, Harvard University, Johns Hopkins University, Johnson & Johnson, Massachusetts Institute of Technology, Northwestern University, PhRMA, Stanford University, Thermo Fisher Scientific, University of Pennsylvania, Vanderbilt University, Vanderbilt University Medical Center and Washington University in St. Louis.

