

AUTM 2022 Licensing Activity Survey

A Survey of Technology Licensing Related Activity
for US Academic and Nonprofit Research Institutions



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Message from the Chair

Tech Transfer Can Help Repair Higher Ed's Image

Higher education has an image problem. Technology transfer, and metrics like those found in the AUTM Licensing Activity Survey, can help.

A recent Gallup poll found the percentage of Americans with “quite a lot” or “a great deal” of confidence in higher education has plummeted from 57% in 2015 to just 36% in 2023. And a Morning Consult survey found that current levels of trust in higher ed decrease with age, with Gen Z adults 14 percentage points lower than baby boomers.

Analysts say this lack of trust among young adults stems from a perceived disconnect between academia and everyday life, as well as skepticism about whether the job opportunities and economic stability associated with a university degree are worth the considerable investment required.

First let's talk about that perceived disconnect. As we all know, being relevant to everyday life is literally what technology transfer is all about—and we have metrics to prove it. Our efforts to patent and license innovative technologies lead to about 800 innovative new products becoming commercially available every year. And don't forget the nearly 7,000 startup companies that are now currently operational—creating jobs and contributing to local and regional economies—specifically for the purpose of commercializing technologies developed at universities and research institutions.

Universities with tech transfer programs also have an advantage when it comes to the return on investment that is critical for earning public trust. At our institutions, where science, technology, engineering and math (STEM) are typically prioritized, young adults in STEM programs are also learning how to leverage those STEM skills for job opportunities that will positively impact society and the economy.

That includes jobs in technology transfer. At Jackson State University, my institution, we are actively promoting technology transfer as a viable and valued career option for STEM majors—something we should push at all institutions of higher education but particularly Historically Black Colleges and Universities and other Minority Serving Institutions. We are seeing students pursue STEM with a traditional career in mind (medicine, for example) only to realize that career no longer appeals to them. Tech transfer is a great career alternative where a background in STEM can be an advantage.

Students opting out of the pursuit of a university degree could trigger unimagined expansion of the generational wealth gap. Technology transfer gives universities a direct connection to everyday life and opportunities for students to realize a return on their investment in higher ed. Conveying this message to the public, supported by metrics like those generated by the Licensing Survey, will help higher education regain their trust.

Almesha L. Campbell, PhD, RTTP
AUTM Chair





Executive Summary

Key Survey Changes Will Improve TTO Benchmarking

Change is never easy, but it can pay off in surprising ways. In response to feedback from the tech transfer community, we made changes to this year's Licensing Survey to make the data more useful for benchmarking. Thanks to those changes, we were able to show for the first time that patent licensing accounts for a smaller share of overall licensing activity than most of us would have guessed. And that unexpected finding could very well lead to more change.

We made two changes to address outliers in our data that limited tech transfer offices' ability to do meaningful peer comparisons. The first was to have the two largest state university systems report separately for their individual campuses. We sincerely thank the teams from Texas and California for leading this initiative, which we will expand to other state systems for the next Licensing Survey. It was a significant adjustment, but one that will remove two notable outliers from our benchmarking data, making TTO peer comparisons more relevant and impactful.

The second major change was to break up the total licenses category into patent licenses, copyright licenses and other types. Again, our objective was to improve the utility of our data for benchmarking. But as a bonus, your responses also enabled us for the first time to provide a breakdown of licensing efforts by subcategory—showing that only about half of licenses are for patents, with the rest falling under the copyright realm or other areas. And that finding just might make you rethink how your TTO is doing business.

This year's survey is based on a record 200 respondents, a strong increase from last year and a sample size that should boost confidence in our findings. A small rise in staffing numbers compared with FY2021 suggests some welcome relief for offices, although still down since the great resignation. Overall, research expenditures were up more than 8%, to more than \$90 billion, and licensing revenue was dramatically higher based on the success of one particular institution, which accounted for almost 30% of the \$3.8 billion total. Encouragingly, 27% fewer startups ceased operations in this year's survey than last year's. Capital investment might be slowing or waiting on the sidelines currently, but the bleeding may have been staunched in the startup world.

I am particularly proud of this survey and am especially thankful for the efforts of the Licensing Survey committee and the responding institutions. We will use your feedback to further improve the survey process and the usefulness of the resulting data for the tech transfer community. I can't wait to see what we end up learning from the next round of changes.

Thank you,

A handwritten signature in black ink, appearing to read 'John Miner'.

John Miner
Chair, AUTM Metrics and Surveys Portfolio

Benchmarking

How Does Your Institution Measure Up?

We know survey contributors already use the historical Licensing Survey data to see how their institutions stack up. So, using research expenditures to level the playing field, we're taking a closer look at how tech transfer operations tick for different peer groups.



WHAT TO MEASURE

For the benchmarking report, we selected five of the most common measurements that broadly capture the overall performance of tech transfer offices. A sixth key measurement, research expenditures, was used to organize the data into peer groups.

- ▶ Invention Disclosures
- ▶ New Patent Applications
- ▶ Licenses and Options
- ▶ Gross Licensing Income
- ▶ Startups Formed

SELECTING PEER GROUPS

Another important consideration in cross-institution benchmarking is identifying appropriate peers. Each year the National Science Foundation (NSF) conducts the comprehensive Higher Education Research and Development (HERD) Survey. We use the HERD report to divide the population into categories based on research funding. This annual census collects information on research and development (R&D) expenditures from more than 900 degree-granting institutions that spent at least \$150,000 in R&D during the fiscal year. These institutions accounted for more than 99% of the total R&D expenditures reported.

Peer Group Comparison

Peer Groups			Invention Disclosures		New Patent Applications		Licenses and Options		Gross Licensing Income		Startups Formed	
HERD Rank	Total Research Expenditures	Group Size	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
1	More than \$553,876,000	64	261.2	245	183.3	245	98.5	73	\$31,952,530	\$18,822,210	10.1	9
2	\$264,216,000 to \$553,876,000	39	103.8	104	67.4	57	32.6	26	\$6,434,597	\$3,124,408	4.2	3
3	\$126,477,000 to \$264,216,000	44	51.0	47	37.9	25	14.5	9	\$4,000,003	\$1,459,345	2.0	2
4	\$50,408,000 to \$126,477,000	25	27.0	25	16.8	10	8.4	6	\$5,121,984	\$269,462	2.6	1
5	\$25,138,000 to \$50,408,000	14	17.9	13	17.6	5	4.6	2	\$167,993	\$27,863	1.7	1
6	\$150,000 to \$25,138,000	8	9.8	16	8.4	4	1.8	1	\$25,734	\$5,000	0.5	0

Overall	194	124.0	67	86.4	44	49.4	21	\$13,318,996	\$3,199,418	5.1	3
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Note: One outlier for Licenses and Options, one outlier for Gross Licensing Income and six institutions that did not provide research expenditure information have been omitted from the benchmarking calculations.

Peer groups were created based on data from the Higher Education Research and Development (HERD) Survey, National Science Foundation, December 15, 2022. <https://nces.nsf.gov/surveys/higher-education-research-development/2021>



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INSTITUTION				KEY METRICS								OTHER BENCHMARKS			
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Disclosures	New Patent Applications	Total Patent Licenses	Total Copyright Licenses	Total Options	Gross License Income	Startups	Issued Patents	Active Licenses and Options	Running Royalties	Adjusted Gross Income
Albert Einstein College of Medicine	University	1985	3	\$224,134,903	28	18	6	4	3	\$3,721,158	0	14		\$199,636	\$3,721,158
Arizona State University	University	1985	9	\$797,224,000	305	246	27	0	45	\$1,989,382	21	167	337	\$33,643	\$1,982,487
Auburn University	University	1988	3.1	\$304,439,000	48	67	22	0	4	\$2,189,203	3	17	132	\$256,699	\$2,189,203
Augusta University	University	2001	2	\$127,313,000	12	26	4	0	1	\$507,383	0	12	4	\$318,734	\$507,383
Baylor College of Medicine	University	1983	4	\$651,587,448	84	44	9	0	1	\$3,268,821	5	20			\$3,268,821
Beth Israel Deaconess Medical Center	Hospital / Research Institution	1997	5	\$269,000,000	64	174	25	2	5	\$5,987,923	5	11		\$2,531,621	\$5,987,923
Boston Children's Hospital	Hospital / Research Institution	1991	7	\$517,600,000	146	60	33		5	\$58,056,201	2	58	443	\$7,546,053	\$57,537,706
Boston University	University	1976	8	\$757,194,275	76	168	7	18	3	\$3,271,082	2	38		\$2,171,687	\$3,141,369
Bowling Green State University	University	2001	0	\$19,342,000	12	3	0	0	1	\$11,000	0	0	5	\$11,000	\$11,000
Brandeis University	University	1998	3	\$69,076,000	47	8	0	3	0	\$3,931,180	0	20	41	\$3,604,273	\$3,887,022
Brigham Young University	University	1986	3	\$45,610,000	45	86	11	6	1	\$1,340,242	10	21	89	\$1,147,859	\$1,306,566
Brown University	University	1981	3	\$248,993,395	87	125	10	18	7	\$3,032,000	2	19	44	\$2,980,000	\$3,032,000
California Institute of Technology	University	1995	10	\$661,000,000	184	237	26	11	16	\$9,309,696	14	171	477	\$907,896	\$8,100,408
Carnegie Mellon University	University	1992	10.25	\$378,857,830	233	229	17	46	4	\$30,765,415	11	42		\$1,831,556	\$30,752,487
Case Western Reserve University	University	1986	6.25	\$334,891,987	149	70	34	3	14	\$2,910,096	4	98		\$864,961	\$2,812,628
Cedars-Sinai Medical Center	Hospital / Research Institution	1991		\$232,000,000	73	184	18		2	\$14,400,000	2	78			\$14,400,000
Children's Hospital of Philadelphia	Hospital / Research Institution	1991	4	\$554,568,746	108	39	36		4	\$21,997,559	6	16	193	\$1,493,559	\$21,908,575
Cincinnati Children's Hospital Medical Center	Hospital / Research Institution	1997	9	\$400,000,000	161	47	11	7	2	\$2,353,303	2	27	271	\$1,350,277	\$2,291,203
Clemson University	University	1987	2	\$263,158,000	50	22	25		2	\$380,286		14	95	\$49,286	\$380,286
Cleveland State University	University	2012	1	\$81,225,000	14	12	3	0	2	\$218,500	2	6	39	\$125,000	\$218,500
Cold Spring Harbor Laboratory	Hospital / Research Institution	1985	4	\$153,420,712	21	8	6	0		\$1,700,000	2	2	197	\$750,000	\$1,646,995
Colorado School of Mines	University	2005	1	\$86,968,090	38	21	4	10	3	\$414,946	5	13	47		\$414,946
Colorado State University	University	1970	2.5	\$456,911,544	71	66	20	2	11	\$2,985,137	4	28	250	\$2,529,563	\$2,971,488
Columbia University	University	1982	12	\$1,065,717,152	400	267	36	19	27	\$44,975,537	19	85		\$19,044,930	\$44,212,420
Cooper University Health Care	Hospital / Research Institution	2022	2	\$3,630,887	19	3	3	1			1	2			
Cornell University	University	1979	19	\$1,180,000,000	419	177	37	3	11	\$31,715,155	12	79	908	\$10,128,441	\$30,062,811
Dana-Farber Cancer Institute	Hospital / Research Institution	1981	21	\$410,183,299	109	96	18	1	6	\$16,962,906	7	85	628	\$8,016,482	\$15,098,510
Drexel University	University	1995	2	\$165,953,344	56	40	4	0	4	\$2,076,453	2	31	70	\$876,760	\$2,071,083
Duke University	University	1986	13	\$1,223,338,000	316	153	21	80	8	\$95,697,540	14	118	875	\$59,411,142	\$95,394,703
Duke-NUS Medical School	Hospital / Research Institution	2015	5	\$55,000,000		10	7	0	1	\$1,500,000	25		43		\$1,500,000
East Carolina University	University	1995	2	\$53,126,000	53	2	8	0	0	\$310,631	2	6	37	\$52,274	\$310,631
Emory University	University	1985	9	\$791,631,531	212	92	12	16	1	\$279,210,490	5	45	309	\$273,081,802	\$276,032,503

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Florida Atlantic University	University	2001	1	\$56,102,545	60	12	1	1	3	\$161,857	0	6	9	\$60,357	\$161,857
Florida State University	University	1996	4	\$355,986,724	58	47	7	7	5	\$398,946	3	33	93		\$398,946
Fred Hutchinson Cancer Center	Hospital / Research Institution	1988	8	\$713,162,036	218	40	48	0	3	\$12,534,371	4	13	297	\$4,360,826	\$12,057,242
George Washington University	University	2003	2	\$267,482,202	52	26	8	1	5	\$774,019	4	18	27	\$563,919	\$759,019
Georgetown University	University	1993	2.5	\$313,219,990	37	35	13	0	3	\$992,673	0	24	61	\$224,090	\$992,673
Georgia Institute of Technology	University	1990	6	\$1,229,000,000	239		28	0	15	\$2,828,149	17	68	363	\$2,141,143	\$2,774,997
Georgia State University	University	2007	3	\$164,229,014	32	23	2	0	0	\$101,932	0	8	14	\$13,932	\$91,932
Harvard University	University	1977	13	\$940,000,000	376	185	69	0	36	\$152,110,587	23	191	1302	\$16,616,465	\$142,895,779
Icahn School of Medicine at Mount Sinai	Hospital/Research Institution	1991	14.05	\$756,818,818	142	54	21	11	12	\$57,767,121	5	25	311	\$12,459,874	\$53,953,092
Idaho State University	University			\$27,527,384	5	5	0		0			3			
Iowa State University	University	1935	6.92	\$431,704,321	125	35	11	0	12	\$3,453,019	1	37	398	\$3,439,836	\$3,453,019
Jackson State University	University	2010	0	\$61,947,029	8	2	2	0	2	\$0	0	1	6	\$0	
Johns Hopkins University	University	1973	16.58	\$2,060,631,393	437	374	25	66	13	\$32,233,513	14	135	1105	\$12,309,731	\$29,885,121
Johns Hopkins University Applied Physics Laboratory	University	1999	6	\$1,991,805,084	424	90	35	3	10	\$3,696,075	1	30	320	\$383,213	\$3,696,075
Kansas State University Research Foundation	University	1942	6.13	\$212,974,000	52	35	5	5	9	\$6,511,463	1	21	173	\$1,648,523	\$6,446,887
Louisiana State University System	University	1986	9.5	\$428,811,000	141	176	30	8	3	\$6,908,414	5	35	263	\$6,340,481	\$6,844,638
Louisiana Tech University	University	2000	1	\$26,590,334	8	3	2	0	0	\$245,833	1	1	9	\$181,000	\$239,458
Marquette University	University	1999	1.5	\$40,600,000	16	10	5		1	\$9,225	2	7	15	\$4,725	\$9,225
Massachusetts Institute of Technology	University	1940	23	\$1,940,568,000	698	345	72	42	46	\$82,770,000	27	354	1427	\$14,670,000	\$81,120,000
Mayo Foundation for Medical Education and Research	Hospital / Research Institution	1986	31.91	\$1,075,360,000	509	125	102	44	11	\$81,635,464	12	112	1275	\$62,538,969	\$78,045,229
Medical College of Wisconsin Research Foundation	Hospital / Research Institution	1984	2	\$340,000,000	47	23	6	1	2	\$181,000	3	12	67	\$132,000	\$161,000
Medical University of South Carolina	Hospital / Research Institution	1994	4.5	\$264,699,584	120	60	9	2	7	\$1,230,966	0	16	113	\$988,716	\$1,230,966
Memorial Sloan Kettering Cancer Center	Hospital / Research Institution	1981	22	\$930,000,000	149	66	148		8	\$38,052,773	0	45	1052	\$23,309,933	\$38,052,773
Michigan State University	University	1992	9	\$759,200,000	157	58	23	4	2	\$3,525,653	2	55	348	\$3,112,009	\$3,463,886
Michigan Technological University	University	1988	1	\$91,083,548	31	10	6		3	\$76,548	1	2		\$0	\$76,548
Mississippi State University	University	1992	4	\$303,418,000	38	25	11	0	5	\$199,985	1	8	10	\$88,363	\$199,985
Montana State University	University	1980	2.33	\$201,000,000	21	13	7	1	4	\$532,956	1	8	159	\$499,856	\$525,901
Morgan State University	University	2016	2	\$29,482,000	30	29	4	0	4		2	2	15		
Nationwide Children's Hospital	Hospital / Research Institution	2008	5	\$225,063,000	73	26	9	3	1	\$28,424,659	3	20	88	\$25,368,497	\$27,594,301

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New York University	University	1989	10	\$979,907,000	257	87	46	10	6	\$100,436,749	12	46	757	\$96,571,214	\$100,360,225
North Carolina A&T State University	University	2000	0.25	\$47,900,000	10	3	0	0	0	\$5,000	0	8	1	\$0	\$5,000
North Carolina State University	University	1984	6	\$583,203,000	205	89	25	1	92	\$6,728,573	18	57	1657	\$3,311,476	\$6,728,573
Northeastern University	University	2000	1	\$167,541,670	111	89	4	0	3	\$689,561	10	55	54	\$4,449	\$689,561
Northern Arizona University	University	2008	1	\$66,729,000	48	23	6	0	1	\$56,830	2	22	26	\$8,413	\$56,830
Northern Illinois University	University	1988	1	\$13,000,000	8	7	0	0	0	\$5,000	0	5	4	\$0	\$5,000
Northwestern University	University	1990	11	\$766,473,665	220	172	107	4	14	\$14,148,511	12	97	548	\$1,846,971	\$13,082,915
Ohio State University	University	1990	13.5	\$1,380,392,245	363	190	26	6	19	\$18,822,210	10	63	331	\$215,762	\$18,203,682
Ohio University	University	1991	2	\$52,465,000	15	17	0	0	0	\$269,462	0	10	10	\$269,462	\$269,462
Oklahoma State University	University	1995	6	\$203,409,000	31	16	9	0	2	\$2,914,926	2	15	85	\$2,743,534	\$2,914,926
Oregon Health & Science University	Hospital / Research Institution	1989	6	\$506,760,128	129	48	17	9	4	\$3,561,740	1	20	579	\$946,447	\$3,482,478
Oregon State University	University	1980	4	\$297,934,000	50	25	28	3	4	\$5,476,207	1	25	543	\$2,817,694	\$5,476,207
Penn State University	University	1989	6.5	\$1,034,241,000	242	104	7	3	6	\$3,056,926	3	41	200	\$1,357,147	\$2,978,206
Portland State University	University	2005	2	\$61,235,832	13	3	5	14	0	\$1,378,068	2	6	46	\$31,401	\$1,370,568
Princeton University	University	1986	5	\$438,799,000	104	86	13	0	12	\$3,199,418	8	51	113	\$2,594,626	\$2,880,277
Puerto Rico Science, Technology and Research Trust	University	2017	2.75	\$123,707,000	25	22	3	0	1	\$23,804	1	7	7	\$304	\$23,804
Purdue Research Foundation	University	1988	9	\$763,663,000	379	215	85	37	36	\$5,340,281	9	169		\$1,016,319	\$5,340,281
Rice University	University	1998	3	\$170,469,240	77	51	1		5	\$1,480,109	3	14	57	\$57,836	\$1,399,872
Rosalind Franklin University of Medicine and Science	Hospital / Research Institution	2010	1	\$12,988,000	2	2	0	0	2	\$0	0	2	3	\$0	
Rowan University	University	2013	2	\$49,127,744	22	15	0		2	\$241,650	0	4	8	\$71,264	\$241,650
Rutgers, The State University of New Jersey	University	1989	16.57	\$747,058,000	188	69	87	6	5	\$18,976,020	8	65	1287	\$16,974,382	\$16,840,086
San Diego State University	University	1997	2	\$123,856,000	25	10	1	4	0	\$647,964	3	9		\$647,964	
Seattle Children's Research Institute	Hospital / Research Institution	2017	5	\$222,000,000	54	136	7	0	2	\$4,707,713	1	9	26	\$2,556,858	\$4,707,713
St. Jude Children's Research Hospital	Hospital / Research Institution	1995	4	\$585,500,000	37	23	11	0	0	\$30,770,686	0	9	260	\$20,177,526	\$30,609,996
Stanford University	University	1970	25	\$1,788,981,211	510	350	114		33	\$89,574,070	38	188	1357	\$41,886,402	\$86,599,085
Texas A&M University System	University	1992	11	\$1,152,666,915	266	196	29	2	32	\$15,774,619	4	53	438	\$7,671,920	\$15,774,619
Texas Tech University System	University	1998	3	\$278,988,000	110	40	36	0	24	\$1,191,000	8	25	71	\$264,000	\$1,191,000
The Cleveland Clinic	Hospital / Research Institution	1989	15	\$394,000,000	218	63	35	6	5	\$9,497,203	2	47	352	\$4,736,402	\$9,485,807
The Research Foundation for The State University of New York	University	1979	21.5	\$1,095,254,677	227	120	32	21	10	\$16,324,744	11	76	468	\$4,628,422	\$16,296,701

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The Research Foundation of The City University of New York	University	2006	3		37				4		4	16		\$75,026	
The Salk Institute for Biological Studies	Hospital / Research Institution	1982	4	\$135,054,000	29	13	8	0	2	\$9,384,419	5	12	194	\$6,259,728	\$8,241,832
The University of Akron	University	1995	0	\$19,943,000	35	42	1		0	\$60,060	2	31	45	\$60	\$60,060
The University of Texas MD Anderson Cancer Center	Hospital / Research Institution	1987	10.67	\$1,093,664,594	120	69	9	0	4	\$36,144,523	1	20	317	\$4,667,555	\$34,751,374
The University of Texas Permian Basin	University	2021	1	\$4,110,350	2	0	0	0	0		0	0	0		
Tufts University	University	1978	7	\$223,474,000	85	56	10		6	\$4,062,390	7	37	111	\$3,493,817	\$4,058,623
Tulane University	University	1994	3	\$222,605,000	32	30	2		2	\$416,112	1	11		\$206,112	\$416,112
University Hospitals of Cleveland	Hospital / Research Institution	1998	2	\$177,000,000	106	123	19		5	\$886,433	3	28		\$290,996	\$886,433
University of Alabama in Huntsville	University	1999	1	\$145,338,976	59	8	0	1	4	\$222,372	1	13	11	\$222,372	\$222,372
University of Arizona	University	1988	8.25	\$824,340,000	303	132	21	64	28	\$10,478,208	10	87	482	\$8,350,343	\$10,478,208
University of Arkansas for Medical Sciences	Hospital / Research Institution	1994	2	\$175,650,000	39	17	1	1	4	\$1,479,713	5	9	66	\$1,188,720	\$1,465,055
University of Arkansas, Fayetteville	University	1990	7.75	\$184,711,346	63	49	24	3	10	\$4,134,325	3	11	358	\$3,862,226	\$4,115,476
University of California, Berkeley	University	1990	4.25	\$846,872,000	148	123	24		3	\$21,397,070	5	76		\$935,303	\$19,846,836
University of California, Irvine	Hospital / Research Institution			\$523,752,000	129	87	13		8	\$5,785,941	8	38		\$4,381,233	\$5,739,083
University of California, Los Angeles	University	1993	13.5	\$1,454,880,000	292	194	49		9	\$7,466,513	14	121		\$1,107,948	\$7,233,098
University of California, Merced	University	2005	3	\$45,964,000	13	5	0		0		0	1			
University of California, Riverside	University	2004	5	\$189,600,000	51	32	4		4	\$9,179,921	1	21		\$9,036,569	\$9,077,300
University of California, San Diego	University	1995	10	\$1,425,499,000	395	172	101		5	\$26,862,572	11	99		\$20,736,824	\$26,025,792
University of California, San Francisco	Hospital / Research Institution	2006	14	\$1,710,036,000	247	96	20		2	\$27,030,602	5	74		\$5,702,146	\$22,666,395
University of California, Santa Barbara	University	2006	2	\$248,961,000	54	42	9		3	\$5,800,387	1	22		\$2,107,961	\$5,717,125
University of California, Santa Cruz	University	2006	2	\$160,615,000	39	29	0		2	\$4,731,397	1	33		\$4,235,227	\$4,700,069
University of Central Florida	University	1985	5	\$221,488,000	98	70	11	14	7	\$1,438,977	2	58	134	\$1,184,621	\$1,360,969
University of Chicago	University	1986	12	\$514,318,731	197	121	8	7	7	\$23,046,172	9	30	145	\$18,674,060	\$19,218,296
University of Cincinnati	University	1983	3.42	\$308,203,859	142	68	8	5	10	\$528,909	6	27	216	\$92,915	\$507,005
University of Colorado	University	1993	12	\$1,274,884,316	293	520	109	6	26	\$24,058,275	28	73	441	\$16,647,348	\$23,846,570
University of Connecticut	University	1987	4.2	\$367,557,000	90	67	5	0	7	\$627,112	7	24	125	\$241,205	\$621,808
University of Delaware	University	1997	4	\$221,720,615	38	51	6	0	1	\$3,444,098	2	4	6	\$3,444,098	\$3,444,098
University of Florida	University	1983		\$1,085,000,000	320	187	277		53	\$58,140,098	10	139			\$58,140,098
University of Georgia	University	1979	5.5	\$545,631,000	147	56	84	7	55	\$11,258,343	5	37	1461	\$10,278,782	\$8,929,146
University of Hawaii	University	1987	2.97	\$297,970,000	53	14	4	3	1	\$301,658	2	9	151	\$181,738	\$300,326

AUTM 2022 US Licensing Activity Survey



INSTITUTION				KEY METRICS									OTHER BENCHMARKS			
Institution Name	Institution Type	Program Start	Licensing Full-Time Equivalents	Total Research Expenditures	Disclosures	New Patent Applications	Total Patent Licenses	Total Copyright Licenses	Total Options	Gross License Income	Startups	Issued Patents	Active Licenses and Options	Running Royalties	Adjusted Gross Income	
University of Houston	University	1996	4	\$107,116,138	62	144	10	0	5	\$70,629,132	7	32	62	\$70,088,017	\$70,625,440	
University of Idaho	University	2008	2	\$115,603,021	20	10	6	1	0	\$2,517,651	6	8	42	\$2,517,651	\$1,897,508	
University of Illinois	University	1981	14.4	\$1,206,482,000	334	160	41	37	5	\$36,662,303	9	102	694	\$3,983,556	\$36,164,224	
University of Iowa Research Foundation	University	1975	5	\$576,754,396	103	36	39	0	9	\$3,647,357	3	20	269	\$1,750,155	\$3,647,357	
University of Kansas	University	1994	4	\$303,584,216	55	41	2	19	0	\$6,898,326	1	22	120	\$5,085,647	\$6,885,003	
University of Kentucky Research Foundation	University	1984	10	\$441,559,539	91	41	4	4	14	\$1,625,917	3	32	166	\$1,518,036	\$1,617,994	
University of Louisville	University	1996	2.5	\$229,582,000	46	17	4	0	3	\$778,325	1	21	78	\$278,731	\$778,325	
University of Massachusetts System	University	1994	9	\$812,857,000	184	105	28	5	12	\$41,243,144	9	84	203	\$31,931,113	\$33,083,851	
University of Miami	University	1989	3	\$413,000,000	106	24	7	8	2	\$7,644,319	3	14	212	\$5,164,015	\$7,644,319	
University of Michigan	University	1982	18	\$1,717,165,474	433	218	43	177	37	\$20,419,675	16	143	1012	\$6,891,789	\$19,606,050	
University of Minnesota	University	1957	21	\$1,227,127,000	315	150	134	24	53	\$15,274,716	22	119	868	\$9,322,196	\$15,005,614	
University of Missouri, all campuses	University	1987	7.3	\$551,558,945	161	65	21	11	9	\$4,711,707	5	33	492	\$2,059,289	\$4,425,779	
University of Nebraska	University	1992	10.75	\$600,268,072	203	152	17	9	16	\$6,567,785	7	55	340	\$5,994,212	\$6,567,785	
University of Nevada at Reno	University	2000	3	\$181,782,000	34	10	3	0	1	\$495,755	1	3	36	\$335,801	\$495,755	
University of New Hampshire	University	1997	2.5	\$175,000,000	83	1	0	138	0	\$1,893,260	0	10	699	\$465,785	\$1,876,141	
University of North Carolina, Chapel Hill	University	1985	10	\$1,203,086,662	140	98	47	23	9	\$11,798,363	6	60	309	\$4,145,853	\$11,558,389	
University of North Carolina, Charlotte	University	1993	2	\$46,500,175	27	35	5		3	\$340,892	4	6	22	\$145,965	\$340,892	
University of North Florida	University	2010	0.5	\$18,394,000	0	4	0	0	0	\$1,059	0	4	3	\$1,016	\$1,059	
University of North Texas Denton	University	2015	1	\$91,315,937	41	16	2	8	2	\$135,577	1	10	48	\$858	\$133,552	
University of North Texas Health Science Center	Hospital / Research Institution	1999	1.4	\$59,223,276	6	5	3	0	0	\$310,187	0	3	32	\$17,687	\$304,937	
University of Northern Iowa	University	2002	0.1	\$36,500,000	12	2	1	0	2	\$46,500	1	2	13	\$36,500	\$46,500	
University of Notre Dame	University	1999	1	\$278,000,000	67	99	14		2	\$730,411	7	24	121	\$388,510	\$730,411	
University of Oklahoma, all campuses	University	1984	3	\$308,428,747	65	33	5	0	1	\$1,719,514	1	19	66	\$1,524,514	\$1,652,706	
University of Oregon	University	1992	4.25	\$152,973,682	45	12	6	1087	2	\$10,581,033	1	9	1408	\$1,205,766	\$10,396,763	
University of Pennsylvania	University	1986	19	\$1,252,048,359	363	173	78	63	31	>\$1,258,637,000	24	110	1268			
University of Pittsburgh	University	1992	6.8	\$1,065,233,000	334	141	26		66	\$8,756,074	11	105	674	\$6,058,309	\$8,500,560	
University of Rhode Island	University	1991	1.5		14	6	0	0	0	\$62,936	0	8	28	\$50,486	\$62,936	
University of Rochester	University	1980	4	\$459,920,000	116	63	5	13	8	\$6,092,038	3	30	188	\$430,335	\$6,037,733	
University of South Carolina	University	1993	1	\$229,162,000	63	65	3	0	5	\$119,660	5	27	18	\$80,571	\$119,660	
University of South Florida	University	1990	5	\$405,166,000	185	138	25	67	7	\$4,821,088	11	86		\$2,375,442	\$4,821,088	
University of Southern California	University	1971	9	\$1,039,905,000	193	113	20	0	4	\$2,412,306	4	56	366	\$1,571,247	\$2,263,593	

AUTM 2022 US Licensing Activity Survey



INSTITUTION				KEY METRICS								OTHER BENCHMARKS			
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University of Tennessee	University	1983	5.75	\$452,565,488	185	52	14	1	4	\$1,056,892	5	33	299	\$194,352	\$975,620
University of Texas at Austin	University	1991	11	\$845,896,420	199	125	9	46	12	\$36,812,405	5	62	707	\$34,170,836	\$36,736,814
University of Texas at El Paso	University	2004	1	\$125,037,378	20	10	0	0	3	\$2,183	1	10	5	\$2,183	\$2,183
University of Texas Health Science Center at Houston	Hospital / Research Institution	1985	3	\$319,889,083	59	21	0	2	5	\$4,192,900	1	18	125	\$2,216,176	\$3,386,184
University of Texas Southwestern Medical Center	Hospital / Research Institution	1984	6	\$627,966,095	163	85	11	5	5	\$20,509,150	9	31	418	\$2,329,722	\$20,262,490
University of Toledo	University	1994	2	\$64,654,000	41	19	0	0	3	\$1,510,026	0	15	99	\$1,288,984	\$1,509,953
University of Utah	University	1968	15	\$670,119,000	305	83	32	85	2	\$34,140,627	9	55	214	\$32,903,524	\$33,913,099
University of Vermont	University	1998	1	\$214,118,857	38	18	8	1	3	\$504,101	2	14		\$119,253	\$504,101
University of Virginia Patent Foundation	University	1977	6	\$670,849,057	226	79	64	0	21	\$3,349,643	5	53	655	\$156,835	\$3,349,643
University of Washington	University	1983	10.41	\$1,610,000,000	274	147	29	397	16	\$26,682,584	12	73	1799	\$3,113,641	\$26,322,814
University of Wisconsin-Madison/ Wisconsin Alumni Research Foundation	University	1925	22	\$1,523,513,000	359	156	47	12	20	\$15,600,000	5	131	671	\$5,778,000	\$15,375,892
University of Wisconsin-Milwaukee Research Foundation	University	2000	3	\$56,584,065	40	14	3	0	1	\$20,505	2	16	46	\$2,005	\$20,505
University System of Maryland	University	1987	12.6	\$1,178,636,835	324	187	26	7	20	\$3,398,167	14	87	489	\$1,751,745	\$3,306,539
UNM Rainforest Innovations	University	1995	5	\$331,163,952	94	57	17	0	24	\$5,436,153	8	45	106	\$110,519	\$5,409,478
Utah State University	University	1987	2	\$344,852,385	29	15	1	20	0	\$2,880,526	0	12	56		\$2,880,526
Vanderbilt University	University	1990	11.75	\$1,086,223,000	165	128	20	40	13	\$88,365,676	2	60	824	\$29,820,659	\$86,704,634
Virginia Commonwealth University	University	1994	3	\$405,737,016	122	143	19	3	6	\$3,124,408	10	17	280	\$2,430,636	\$3,104,224
Virginia Tech Intellectual Properties, Inc.	University	1985	2.5	\$591,900,000	169	180	29	2	4	\$1,520,982	10	46		\$1,520,982	\$1,288,983
Wake Forest University	University	1985	5.4	\$258,102,485	31	22	6	0	0	\$1,266,751	1	11	74	\$762,351	\$1,266,751
Washington State University	University	1985	4.5	\$320,056,365	54	46	22		25	\$15,162,236	2	16	346	\$14,264,435	\$15,104,554
Washington University in St. Louis	University	1986	13	\$1,104,000,000	251	179	139	81	5	\$14,651,967	6	80	749	\$2,790,830	\$14,431,891
Wayne State University	University	1988	4	\$242,247,000	47	25	5	0	1	\$428,585	2	23	66	\$104,938	\$428,585
West Virginia University	University	1999	1	\$127,845,646	64	34	0	1	0	\$276,201	1	11	24	\$5,101	\$276,201
Whitehead Institute for Biomedical Research	Hospital / Research Institution	1987	5	\$50,846,000	14	11	12	0	1	\$42,854,346	1	12	122	\$40,211,963	\$28,346,408
WiSys Technology Foundation	University	2005	4	\$24,764,623	32	6	6	0	0	\$128,749	1	6	17	\$6,490	\$128,749
Woods Hole Oceanographic Institution	Hospital / Research Institution	2013	1	\$258,948,987	45	13	5		0	\$501,370	1	4		\$501,370	\$501,370
Worcester Polytechnic Institute	University	2012	1	\$40,800,000	48	44	7	0	0	\$119,155	4	11	30	\$0	\$119,155
Wright State University	University	2001	0	\$27,440,000	2	1	0	0	0	\$899	0	2	2	\$899	\$899
Yale University	University	1983	7	\$962,000,000	259	1079	54	0	16	\$11,474,261	13	62	1101	\$5,522,261	\$11,073,261



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About the Survey

AUTM invited 349 US institutions — universities and colleges, hospitals and research institutions, national laboratories and third-party technology investment firms — to participate in the AUTM 2022 US Licensing Activity Survey. AUTM received 200 completed surveys, for a response rate of 57%. The numbers from these institutions reflect the significant role played by technology transfer in today's innovation economy.

Most of the data collected in this survey is also available in AUTM's Statistics Access for Technology Transfer (STATT) Database. To access this searchable database of more than 30 years of academic licensing data, visit www.autm.net/statt.

Suggested Citation

AUTM report titled *AUTM US Licensing Activity Survey: 2022, A Survey Report of Technology Licensing (and Related) Activity for US Academic and Nonprofit Institutions and Technology Investment Firms* can also be referenced by its abbreviated title, *AUTM US Licensing Activity Survey: 2022*, editors John Miner, Myron Kassaraba, Ragan Robertson, Amanda Sorensen, Ashley Stevens and Jordana Bieze Foster.

About AUTM

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