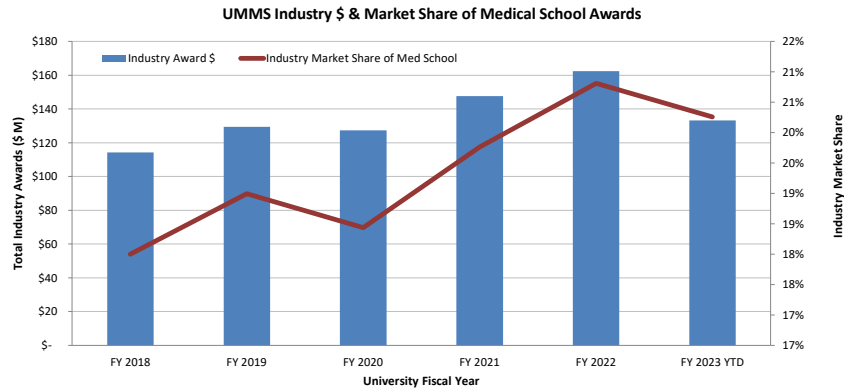


# Fast Forward Medical Innovation Metrics

## Industry Sponsor Awards & Market Share of UMMS Awards

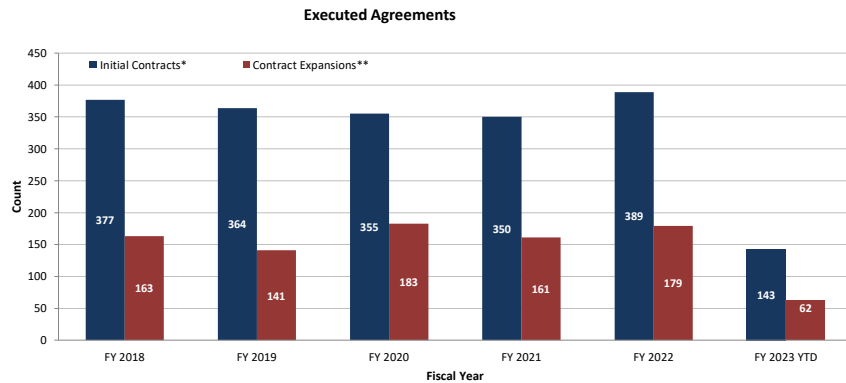


	University Fiscal Year					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 YTD
Med School Total Award \$	\$ 635,115,379	\$ 681,569,556	\$ 691,032,930	\$ 746,540,491	\$ 780,077,852	\$ 657,303,942
Industry Award \$	\$ 114,292,479	\$ 129,461,605	\$ 127,418,873	\$ 147,564,785	\$ 162,336,538	\$ 133,158,740
Industry Award Count*	966	1005	1031	1054	1126	868
Industry Market Share of Med School	18.00%	18.99%	18.44%	19.77%	20.81%	20.26%

\*Award Counts are now represented as distinct count of AWD number in alignment with the August 2018 campus data restructure. Historical counts may be lower than the previously reported count of funded PAF numbers as multiple PAFs can fund a single AWD.

	University Fiscal Year					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 YTD
# of Unique Sponsors*	368	404	422	448	496	403
# of Unique PIs Awarded	337	348	347	357	351	286

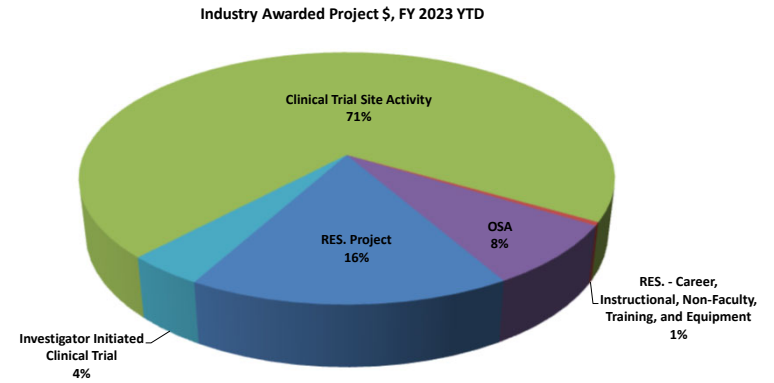
## Executed Agreements with Industry Sponsors



\*Initial Contracts are newly negotiated agreements that are for a new project or a distinct new phase of a project that require a set of new terms.

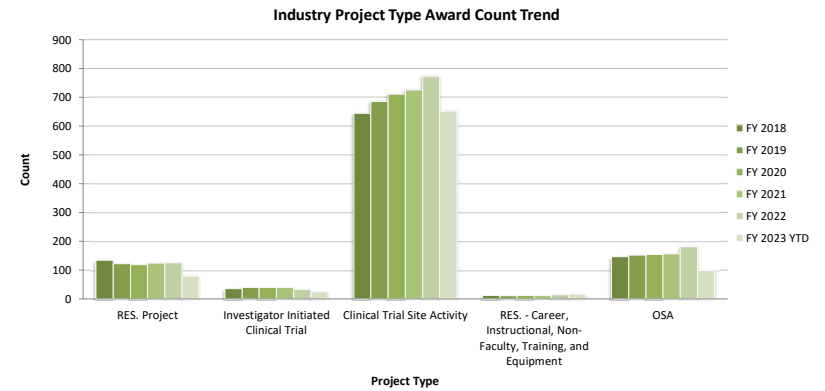
\*\*Contract Expansions are incremental agreements which provide additional funds for ongoing project activities.

## Industry Projects Award \$ by Project Type



	University Fiscal Year					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 YTD
RES. Project	\$ 23,290,898	\$ 35,754,331	\$ 24,015,819	\$ 33,559,572	\$ 31,890,739	\$ 21,824,726
Investigator Initiated Clinical Trial	\$ 7,198,866	\$ 5,778,078	\$ 6,384,902	\$ 6,596,037	\$ 5,088,027	\$ 5,290,229
Clinical Trial Site Activity	\$ 72,172,863	\$ 75,727,833	\$ 85,230,654	\$ 91,930,857	\$ 109,859,244	\$ 94,958,746
RES. - Career, Instructional, Non-Faculty, Training, and Equipment	\$ 559,321	\$ 607,098	\$ 602,946	\$ 608,629	\$ 565,876	\$ 560,437
OSA	\$ 11,070,531	\$ 11,594,265	\$ 11,184,552	\$ 14,869,690	\$ 14,932,652	\$ 10,524,602

## Industry Projects Award Count by Project Type



	University Fiscal Year					
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023 YTD
RES. Project	135	122	119	124	126	79
Investigator Initiated Clinical Trial	36	40	40	40	33	24
Clinical Trial Site Activity	644	686	711	725	773	652
RES. - Career, Instructional, Non-Faculty, Training, and Equipment	12	11	12	12	15	17
OSA	147	152	155	157	181	99

**Industry Awards by Department**

	Award Count*			Awards (\$ Millions)				
	2021	2022	2023 YTD	2018-2022	2021	2022	2023 YTD	2018-2022
<b>Basic Science Departments</b>								
Biological Chemistry	2	0	0		0.22	0.00	0.00	
Biomedical Engineering-MS	1	7	4		0.07	0.93	0.46	
Cell and Developmental Biology	0	0	1		0.00	0.00	0.03	
DCMB	2	5	1		0.56	1.19	0.63	
Department of Learning Health	0	0	0		0.00	0.00	0.00	
Human Genetics	1	1	1		0.45	0.37	0.24	
Microbiology and Immunology	3	4	1		0.14	0.16	0.07	
Molec & Integrative Physiology	3	4	1		0.37	0.51	0.10	
Pharmacology	6	4	3		1.91	1.66	0.40	
<b>Clinical Departments</b>								
Anesthesiology	8	9	6		6.83	2.30	5.44	
Cardiac Surgery	34	35	31		1.76	1.87	1.55	
Dermatology	18	26	18		2.96	2.54	3.14	
Emergency Medicine	5	8	3		0.54	2.40	0.96	
Family Medicine	0	1	0		0.00	0.01	0.00	
Internal Medicine	650	684	553		99.01	113.21	95.18	
Neurology	38	37	24		4.72	3.42	1.96	
Neurosurgery	6	7	7		0.21	0.18	0.13	
Obstetrics/Gynecology	6	8	6		0.97	1.29	1.08	
Ophthalmology	41	46	34		5.03	6.01	3.80	
Orthopaedics	11	11	6		0.74	0.66	0.31	
Otolaryngology	6	5	5		0.97	0.77	0.67	
Pathology	9	10	6		1.64	1.18	0.34	
Pediatrics	103	112	82		5.47	7.10	5.02	
Physical Medicine and Rehab	0	2	2		0.00	0.31	0.28	
Psychiatry	7	4	2		0.64	0.47	0.12	
Radiation Oncology	14	14	11		1.23	1.40	1.51	
Radiology	19	17	14		2.88	3.10	1.86	
Surgery	32	29	21		5.40	4.86	3.63	
Urology	10	16	13		0.96	2.13	1.39	
<b>Other Med School Departments</b>								
Cancer Center	1	0	0		0.03	0.00	0.00	
Eisenberg Family Depression Center	0	0	0		0.00	0.00	0.00	
MNI	2	0	0		0.42	0.00	0.00	
<b>Research Oversight Units</b>								
BRCF Roll-up	11	13	10		1.12	1.82	2.69	
Mary H. Weiser Food Allergy Center	1	2	1		0.09	0.18	0.05	
MICHR Roll-up	4	5	1		0.21	0.21	0.03	
ULAM	0	1	1		0.00	0.04	0.04	
<b>Med. Sch. Total (Incl. MSA, Other)</b>	<b>1,055</b>	<b>1,128</b>	<b>870</b>		<b>147.56</b>	<b>162.34</b>	<b>133.16</b>	

\*Award Counts are now represented as distinct count of AWD number in alignment with the August 2018 campus data restructure. Historical counts may be lower than the previously reported count of funded PAF numbers as multiple PAFs can fund a single AWD.

**Top 15 Industry Sponsors by Award \$**

**Top 15 Industry Sponsors (Directly from the Sponsor) - FY 2023 YTD**

Sponsor Name	Awarded Project \$	# of Awards	Average Bud \$ / Award
Oncopria Therapeutics, Inc.	\$ 6,077,637	1	\$ 6,077,637
AbbVie Inc.	\$ 3,834,193	26	\$ 147,469
Regeneron Pharmaceuticals, Inc.	\$ 3,751,898	21	\$ 178,662
Amgen, Inc.	\$ 3,493,864	19	\$ 183,888
Bristol-Myers Squibb Company	\$ 3,258,415	20	\$ 162,921
Apple, Inc.	\$ 3,012,454	3	\$ 1,004,151
Pfizer, Inc.	\$ 2,367,349	14	\$ 169,096
Genmab	\$ 2,271,655	10	\$ 227,166
MeiraGTx UK II Limited	\$ 2,057,706	16	\$ 128,607
Ascentage Pharma Group Corporation, Ltd.	\$ 1,821,111	4	\$ 455,278
Novartis Pharmaceuticals Corporation	\$ 1,653,255	22	\$ 75,148
Merck, Inc	\$ 1,651,742	9	\$ 183,527
Merck Sharp & Dohme LLC (formerly know as Merck Sharp & Dohme Cor	\$ 1,566,288	8	\$ 195,786
Genentech, Inc.	\$ 1,546,880	8	\$ 193,360
AstraZeneca AB	\$ 1,541,779	13	\$ 118,598

**Top 15 Industry Sponsors (Intermediate Company) - FY 2023 YTD**

Sponsor Name	Awarded Project \$	# of Awards	Average Bud \$ / Award
Labcorp Drug Development, Inc.	\$ 4,630,663	23	\$ 201,333
Syneos Health, LLC	\$ 2,694,618	39	\$ 69,093
Parexel International, LLC	\$ 2,650,897	16	\$ 165,681
PPD Development, LP	\$ 2,118,097	4	\$ 529,524
IQVIA RDS, Inc.	\$ 1,715,003	3	\$ 571,668
PPD Investigator Services, LLC	\$ 1,400,083	13	\$ 107,699
Medpace, Inc	\$ 1,335,267	17	\$ 78,545
IQVIA, Inc.	\$ 1,142,015	10	\$ 114,202
PRA Health Sciences	\$ 894,358	12	\$ 74,530
ICON plc.	\$ 680,949	5	\$ 136,190
Genentech, Inc.	\$ 621,379	1	\$ 621,379
Chan Zuckerberg Foundation	\$ 601,701	1	\$ 601,701
IQVIA AG	\$ 576,041	4	\$ 144,010
Cmed Inc	\$ 466,716	2	\$ 233,358
The GOG Foundation, Inc.	\$ 445,785	2	\$ 222,893

**Technology Transfer Metrics**

**Technology Transfer Metrics (Medical School Only; Effective FY 2023 Q2)**

	University Fiscal Year					
	2018*	2019	2020	2021**	2022	2023 YTD
Royalties/Equity Sales (\$M)	7	11.1	10.8	33.2	16.7	TBD
Invention Reports	235	226	241	204	188	145
U.S. Patent Appl. (all-new)	67	79	95	71	70	TBD
U.S. Patents Issued	57	59	49	55	51	TBD
License/Option Agreements	112	114	166	182	189	137
Invention Reports in Agreements	142	137	177	204	214	TBD
New Business Startups	7	11	16	10	9	TBD

\*Beginning in FY2018, data is no longer counted only based on affiliation of "lead" inventor, but is counted more than once if U-M inventors are affiliated with different colleges.

\*\* The increased FY2021 Royalties/Equity Sales is largely due to two stock/equity payouts--Ascentage Pharma Group Corp Limited for more than \$10M and Oncoimmune, Inc for \$5M.