



AMERICAN COLLEGE OF SURGEONS • DIVISION OF EDUCATION®
ACCREDITED EDUCATION INSTITUTES
ENHANCING PATIENT SAFETY THROUGH SIMULATION



2019 Annual Data Report



AMERICAN COLLEGE OF SURGEONS
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Highest Standards, Better Outcomes*

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100+years

2019 Highlights

Streamlined Process and Enhanced Reporting

Each year, Accredited Education Institutes (AEIs) submit data to demonstrate their ongoing compliance with the accreditation standards and criteria. After review by the Accreditation Review Committee, select data points are aggregated and published in a report as a service to our AEI Community. The 2019 Data Report marks the second year we have provided the information in this format.

New This Year: More Granular Data

AEIs can be found in a range of settings, from academic teaching centers to health care delivery systems, in the United States and abroad. In response to requests from our AEIs, pages 10 through 15 of this report feature a series of tables with data broken down by center type, size, and budget, enabling centers to benchmark themselves against their peers and gain a better understanding of where they fit within the AEI community.

The aggregated information published in this annual report is based upon self-reporting by AEIs. The American College of Surgeons (ACS) does not provide full verification of the accuracy of all reported information but does follow up on outliers or significant changes from previous years. We also investigate if it appears that the data does not conform to the reporting instructions.

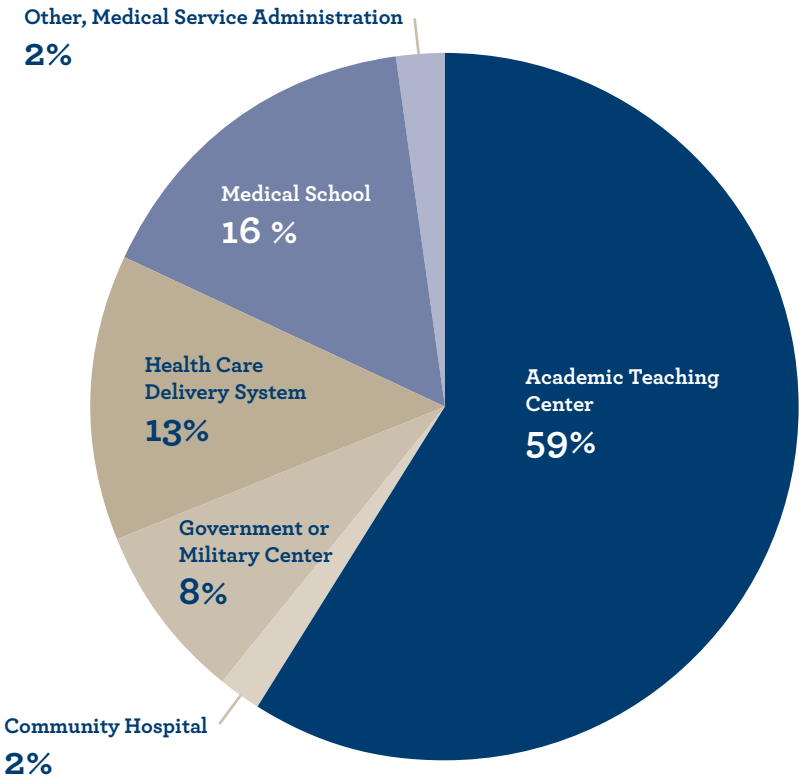
This report features data aggregated from 61 AEIs that were asked to respond in 2019. Next year, all AEIs will participate, which should reveal even richer, more comprehensive data.


2019 Data Points

Makeup of Respondents (61)

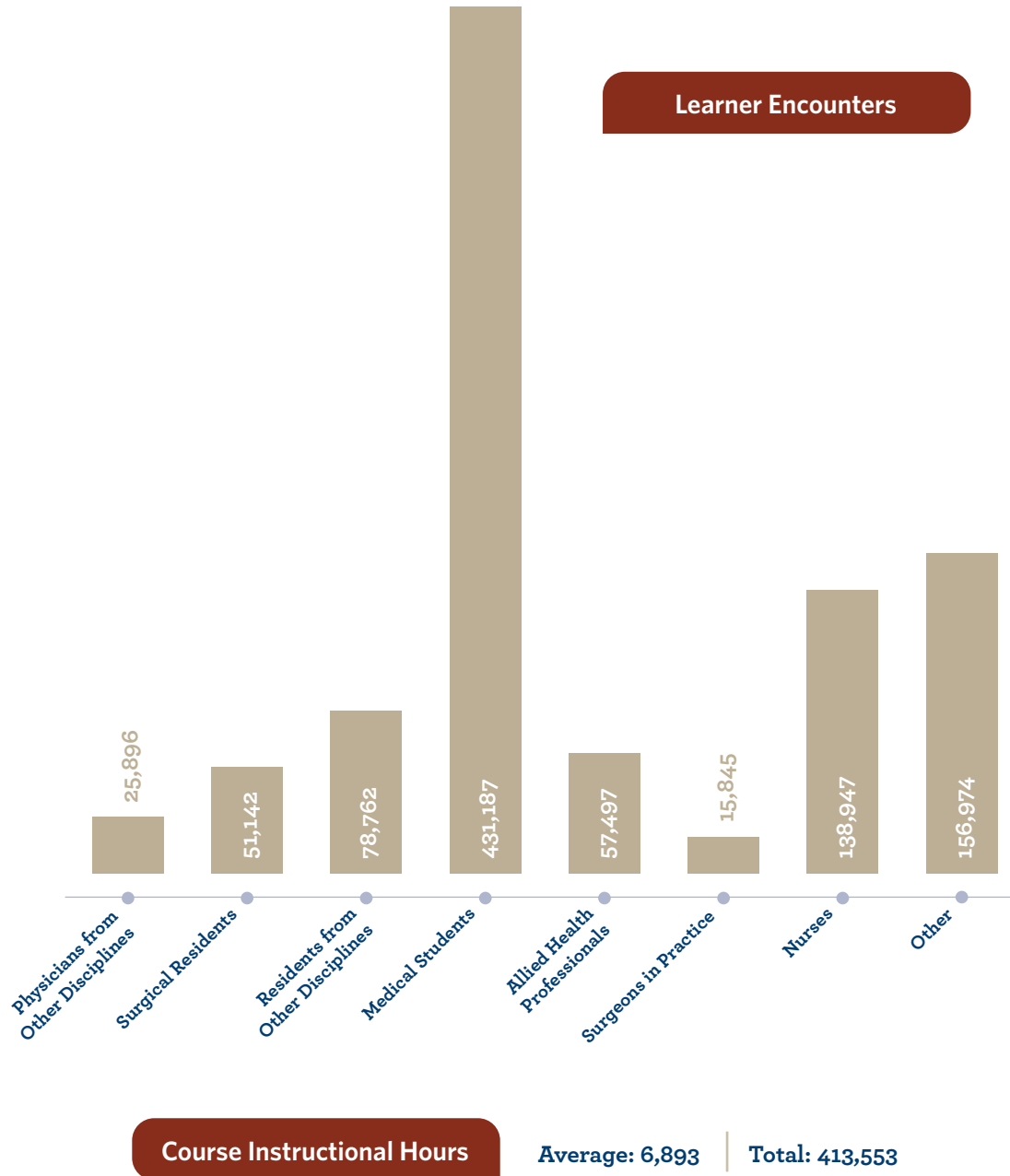
Focused AEIs—6 | Comprehensive AEIs—55

Primary Affiliation



 **QUICK INSIGHT:** Almost 60% of AEIs in this cohort consider their primary affiliation to be with academic teaching centers.

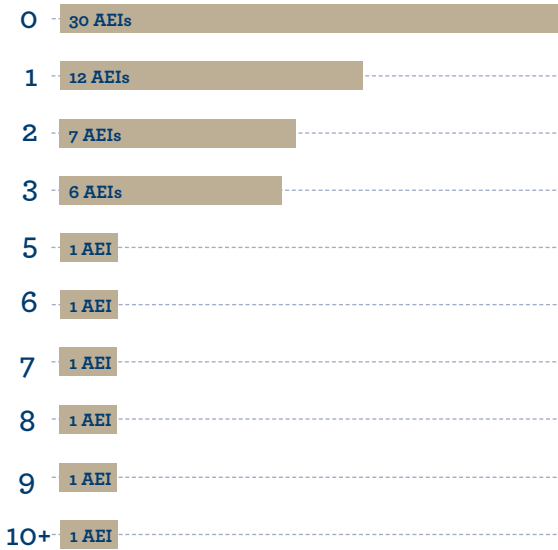
AEIs report the number of participants at each activity, referred to as learner encounters. The data represent aggregate numbers of interactions and not the number of unique participants. Participants attending multiple activities are counted multiple times.



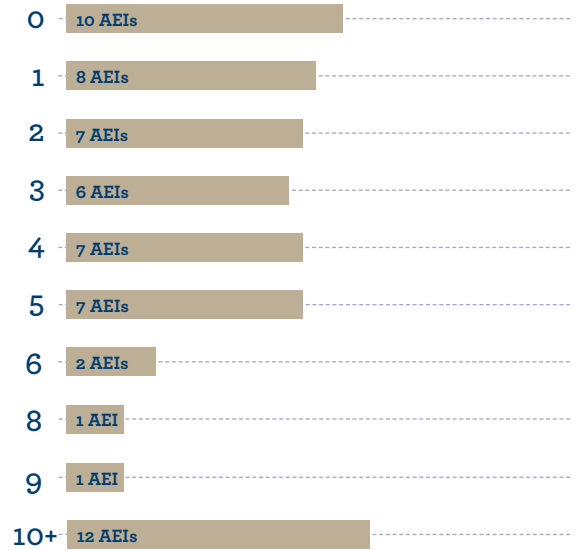
QUICK INSIGHT: In this cohort, 956,250 learning encounters took place over 413,553 hours. Medical students accounted for the largest learner group, with "other" and nurses taking second and third place.

Comprehensive AEs must demonstrate innovation by developing original curricula. Curricula used by Comprehensive and Focused AEs, whether adopted or original, must have been developed using the steps of curriculum development as outlined in the Standards. For the purpose of this report, both Comprehensive and Focused AEs were asked to respond to the questions below.

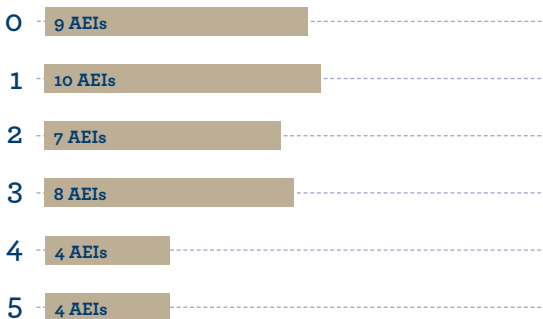
Number of Curricula Adopted



Number of Original Curricula



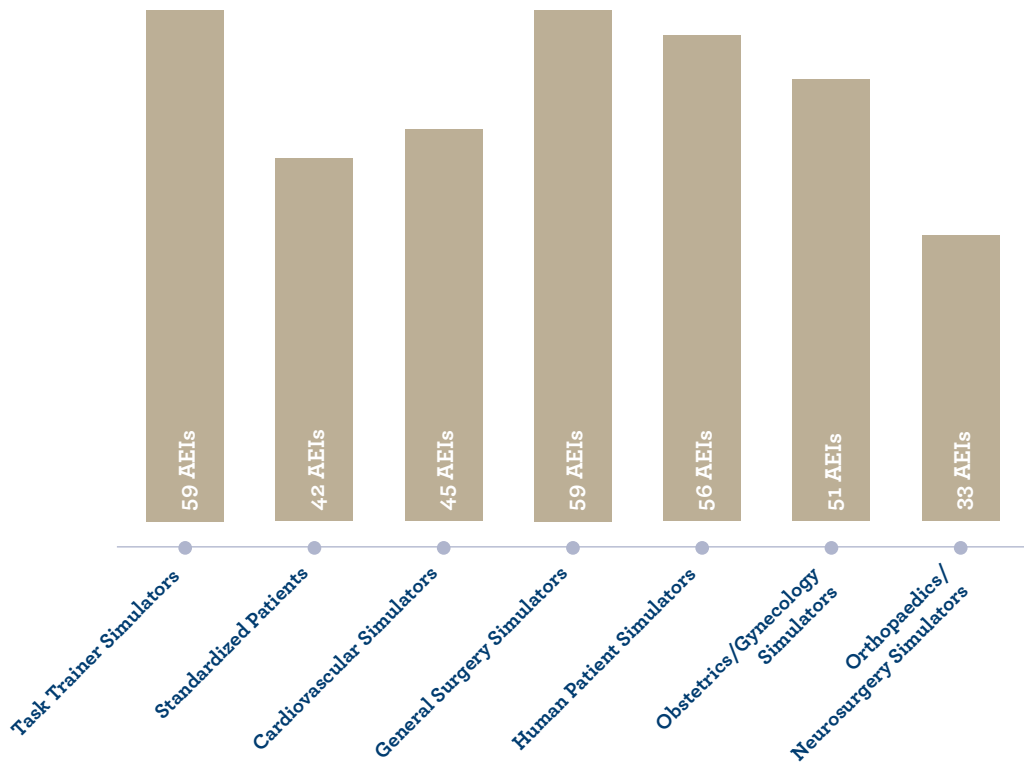
Number of Curricula Implemented



QUICK INSIGHT: At 61 AEs, more than 252 curricula were created and 79 were adopted. Nearly all were implemented.

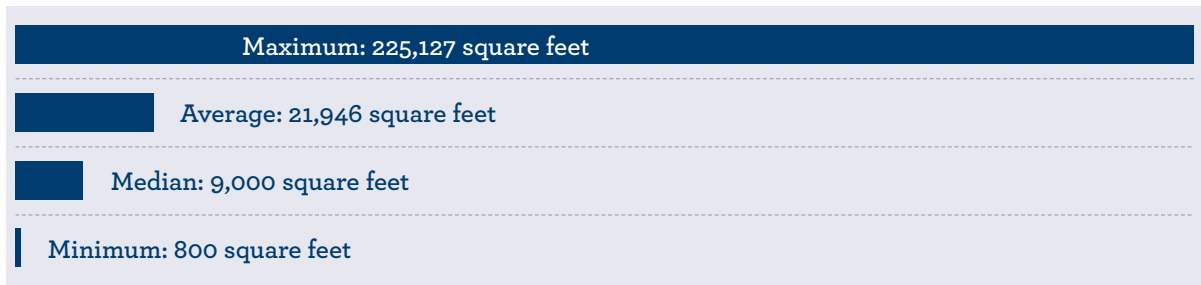
AEIs must have devices, and the support to use them effectively, to meet learner and curricular needs.

Types of Simulators



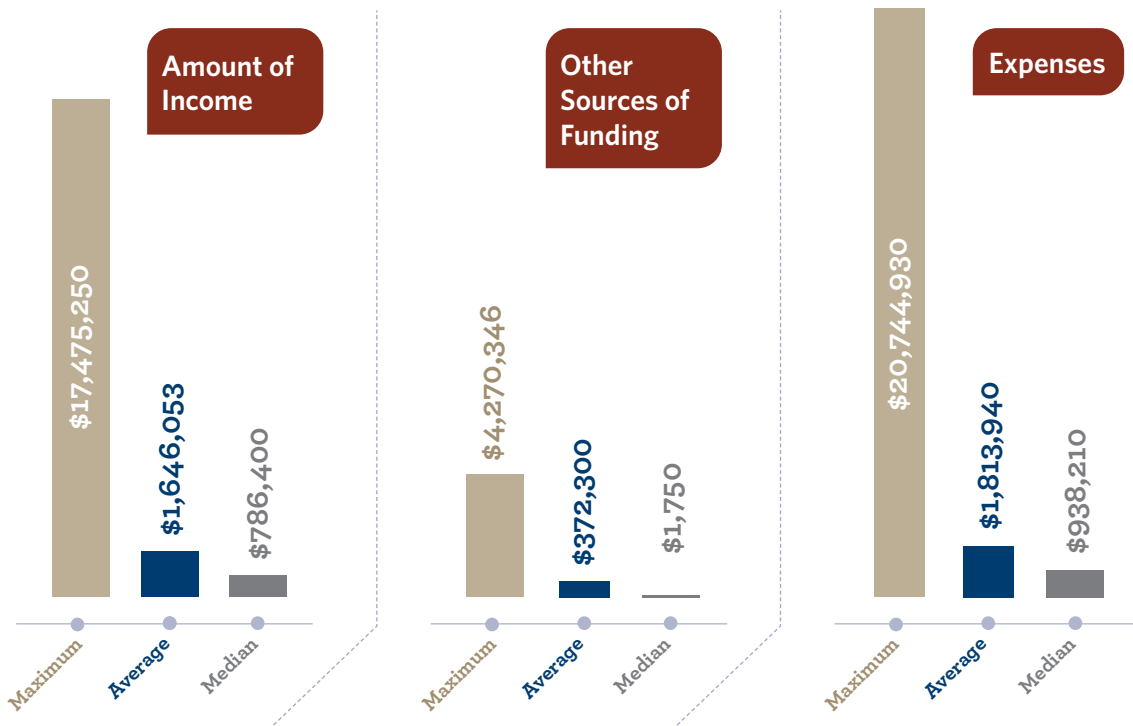
Comprehensive AEs are required to have no less than 1,200 square feet of contiguous space dedicated to education and training, and under the direct control of the Institute. Focused AEs are required to have 800 dedicated square feet. The figures below do not include the additional 4,000 square feet of additional space required for Comprehensive AEs to have to meet the needs of learners and administrative support staff.

Amount of Contiguous Square Footage under the Direct Control of the AEI:



Finances

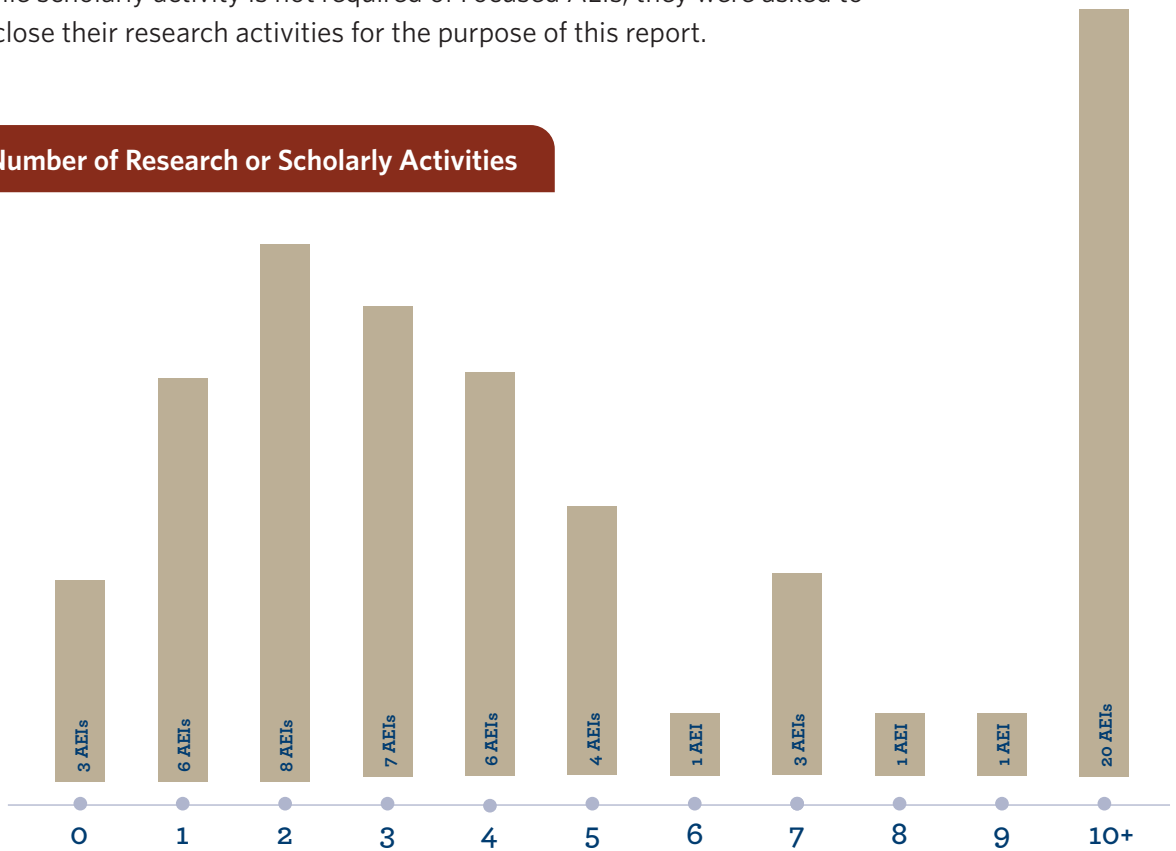
AEIs provide budgetary information to confirm that resources are available to support the Institute.



QUICK INSIGHT: The average AEI in this cohort was 21,946 square feet and functioned on \$1,646,053 a year, not including any other sources of funding. Expenses were nearly equivalent to income.

Comprehensive AElS are required to pursue research and other scholarly activities. While scholarly activity is not required of Focused AElS, they were asked to disclose their research activities for the purpose of this report.

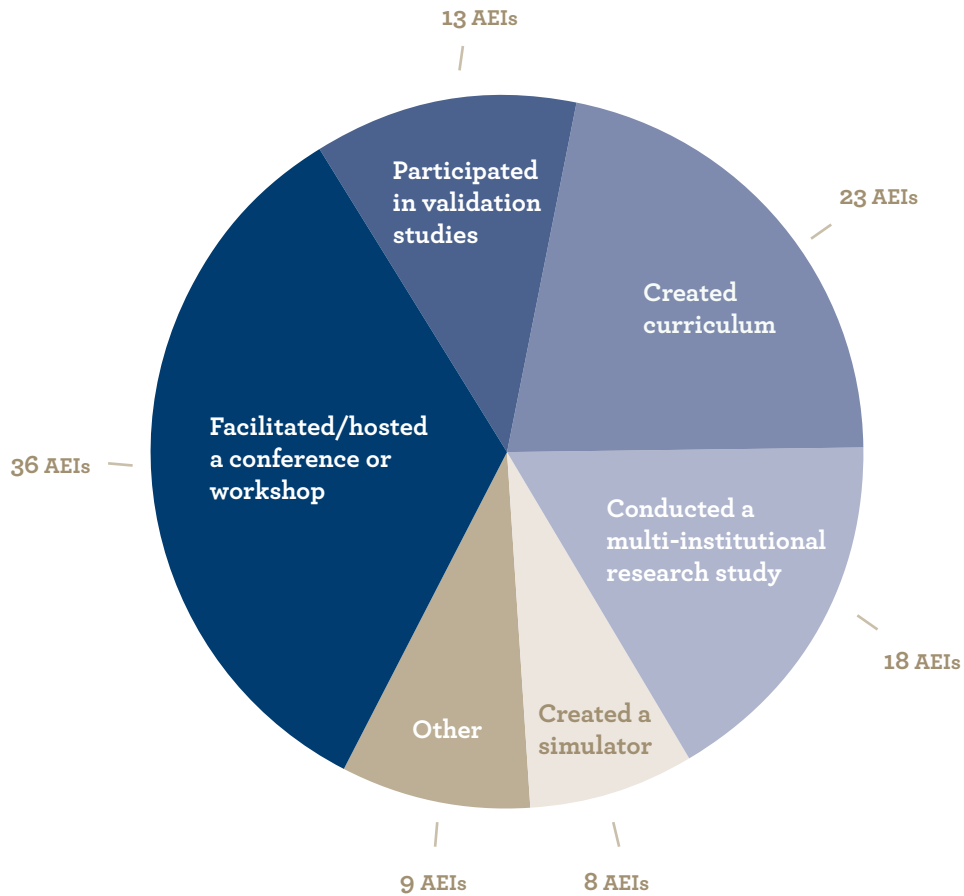
Number of Research or Scholarly Activities



Types of Research or Scholarly Activities



Collaborative Projects with Other AEIs



QUICK INSIGHT: This cohort of 61 AEIs was involved in over 330 research/scholarly activities.

Key Data Points by Type—Comprehensive or Focused

2019 DATA POINTS

Values	Comprehensive	Focused
Number of AEs by Type	55	6
Average Square Feet	23,183	10,615
Average Expenses	\$1,895,838	\$1,076,855
Average Income	\$1,672,145	\$1,411,231
Average of "Other Sources of Funding"	\$410,290	\$1
Average Number of Learners	17254	1216
Average Number of Learners—Physicians from other Disciplines	465	57
Average Number of Learners—Surgical Residents	885	558
Average Number of Learners—Residents from other Disciplines	1426	56
Average Number of Learners—Medical Students	7808	293
Average Number of Learners—Allied Health	1059	50
Average Number of Learners—Surgeons in Practice	271	155

Key Data Points by Type—Comprehensive or Focused

CONTINUED

Values	Comprehensive	Focused
Average Number of Learners—Nurses	2569	43
Average Number of Learners—Other	2960	14
Average Number of Course Hours	7605	482
Average Number of CME Activities	17	4
Average Number of Adopted Curricula	1	2
Average Number of Original Curricula	3	2
Average Number of Curricula Implemented	3	1
Average Number of Research or Scholarly Activities	3	2

Key Data Points by Affiliation

2019 DATA POINTS

Annual Values	Academic Teaching Center	Community Hospital	Government or Military Center	Health Care Delivery System	Medical School	Other
Number of AElS By Affiliation	36	1	5	8	10	1
Average Square Feet	25,990	1,650	9,278	19,859	16,117	35,000
Average Expenses	\$1,943,792	\$152,059	\$1,251,335	\$1,951,767	\$1,521,207	\$2,876,254
Average Income	\$1,813,390	\$152,059	\$926,676	\$1,744,804	\$1,280,608	\$2,857,881
Average of Other Sources of Funding	\$319,949	\$0	\$461,886	\$666,689	\$388,154	\$0
Average Number of Learners	19277	2043	7177	9832	11872	26997
Average Number of Learners—Physicians from other Disciplines	343	139	328	557	312	4180
Average Number of Learners—Surgical Residents	965	564	673	1025	517	125
Average Number of Learners—Residents from other Disciplines	1212	83	1446	1173	1641	2015
Average Number of Learners—Medical Students	9932	1021	402	1200	5583	5196
Average Number of Learners—Allied Health	900	168	350	874	1065	6430
Average Number of Learners—Surgeons in Practice	253	68	457	324	173	49
Average Number of Learners—Nurses	2405		1617	3424	1030	8990

Key Data Points by Affiliation

CONTINUED

Annual Values	Academic Teaching Center	Community Hospital	Government or Military Center	Health Care Delivery System	Medical School	Other
Average Number of Learners—Other	3453		1904	1580	1551	12
Average Number of Course Hours	9668	583	1253	4248	2593	0
Average Number of CME Activities	9	0	3	62	11	0
Average Number of Adopted Curricula	1	1	3	1	2	0
Average Number of Original Curricula	4	0	3	1	1	0
Average Number of Curricula Implemented	3	1	3	1	2	0
Average Number of Research or Scholarly Activities	4	0	5	2	3	2

Key Data Points by Center Square Footage (0 to 8,999)

2019 DATA POINTS

Annual Values	0 to 999	1,000 to 2,999	3,000 to 4,999	5,000 to 6,999	7,000 to 8,999
Average Square Feet	844	2,200	3,893	6,002	8,130
Number of AELs By Square Feet	2	4	6	12	6
Average Expenses	\$231,211	\$778,554	\$576,360	\$912,676	\$1,244,778
Average Income	\$407,801	\$791,502	\$489,063	\$974,154	\$983,693
Average "Other Sources of Funding"	\$0	\$0	\$98,323	\$143,752	\$282,755
Average Number of Learners	938	2820	2580	5105	8420
Average Number of Learners—Physicians from other Disciplines	8	60	177	317	294
Average Number of Learners—Surgical Residents	716	673	655	590	1727
Average Number of Learners—Residents from other Disciplines	18	317	511	859	1032
Average Number of Learners—Medical Students	43	593	843	1352	1245
Average Number of Learners—Allied Health	8	173	32	300	277
Average Number of Learners—Surgeons in Practice	146	103	112	136	302
Average Number of Learners—Nurses	1	397	116	849	2138
Average Number of Learners—Other	0	806	192	703	1405
Average Number of Course Hours	556	1105	1430	6627	13390
Average Number of CME Activities	1	0	1	10	40
Average Number of Adopted Curricula	3	0	1	1	3
Average Number of Original Curricula	4	1	3	4	2
Average Number of Curricula Implemented	2	1	3	4	2
Average Number of Research or Scholarly Activities	1	2	4	2	4

Key Data Points by Center Square Footage (9,000 to 50,000+) CONTINUED

Annual Values	9,000 to 10,999	11,000 to 19,999	20,000 to 24,999	25,000 to 49,999	50,000+
Average Square Feet	9,920	14,530	22,230	34,188	108,021
Number of AELs By Square Feet	5	7	5	8	6
Average Expenses	\$1,712,970	\$1,277,051	\$1,324,437	\$2,821,126	\$6,399,730
Average Income	\$602,843	\$1,212,709	\$905,122	\$2,545,309	\$6,411,132
Average "Other Sources of Funding"	\$1,226,277	\$279,134	\$391,542	\$425,056	\$973,437
Average Number of Learners	15979	7816	10663	55433	30742
Average Number of Learners—Physicians from other Disciplines	383	406	391	1273	353
Average Number of Learners—Surgical Residents	256	1453	585	802	1054
Average Number of Learners—Residents from other Disciplines	1325	1138	1489	2440	2725
Average Number of Learners—Medical Students	2733	2574	1524	41275	5080
Average Number of Learners—Allied Health	502	294	1175	2489	3502
Average Number of Learners—Surgeons in Practice	269	372	107	334	645
Average Number of Learners—Nurses	3822	991	4199	2828	7416
Average Number of Learners—Other	6689	928	1194	3992	9968
Average Number of Course Hours	3174	7412	4837	14219	6175
Average Number of CME Activities	2	2	66	16	14
Average Number of Adopted Curricula	2	1	1	2	3
Average Number of Original Curricula	2	3	3	2	3
Average Number of Curricula Implemented	2	2	3	3	4
Average Number of Research or Scholarly Activities	4	5	3	2	5

Membership



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- 1 Stanford, CA
- 1 Pasadena, CA
- 3 Los Angeles, CA
- 1 Orange, CA
- 1 La Jolla, CA
- 1 San Diego, CA

- 1 Phoenix, AZ
- 1 Albuquerque, NM

- 1 Wichita, KS
- 1 St. Louis, MO
- 1 Oklahoma City, OK

- 2 Dallas, TX
- 1 Shreveport, LA
- 1 Temple, TX

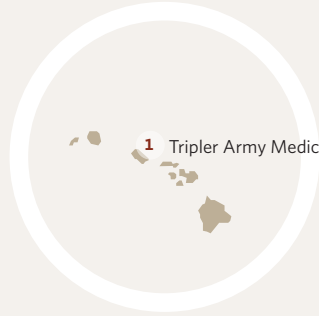
- 1 Houston, TX
- 1 Galveston, TX
- 2 New Orleans, LA

- 1 JBSA-Ft. Sam Houston, TX
- 1 Celebration, FL
- 1 Tampa, FL

- 1 Minneapolis, MN
- 1 Rochester, MN
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- 1 Peoria, IL
- 1 Indianapolis, IN
- 2 Columbus, OH
- 1 Toledo, OH
- 1 Cleveland, OH
- 1 Toronto, Ontario
- 1 London, Ontario
- 1 Allentown, PA
- 1 Hershey, PA
- 1 Johnstown, PA
- 1 Morristown, NJ
- 3 New York, NY
- 3 Philadelphia, PA
- 1 Newark, DE
- 1 Bethesda, MD
- 2 Washington, DC
- 1 Falls Church, VA
- 1 Norfolk, VA
- 1 Portsmouth, VA
- 1 Richmond, VA
- 1 Durham, NC
- 1 Chapel Hill, NC
- 1 Charlotte, NC
- 1 Knoxville, TN

- 1 Montreal, Quebec

- 1 Burlington, MA
- 4 Boston, MA
- 1 Springfield, MA
- 1 Hartford, CT



- 1 Tripler Army Medical Center, HI

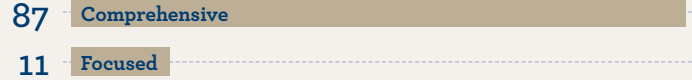


- 1 Buenos Aires, Argentina



- 1 Stockholm, Sweden
- 1 Lund, Sweden
- 1 London, United Kingdom
- 1 Strasbourg, France
- 1 Pisa, Italy
- 1 Santander, Spain
- 1 Plovdiv, Bulgaria
- 1 Athens, Greece
- 1 Riyadh, Saudi Arabia
- 1 Dubai, United Arab Emirates

AEI Centers

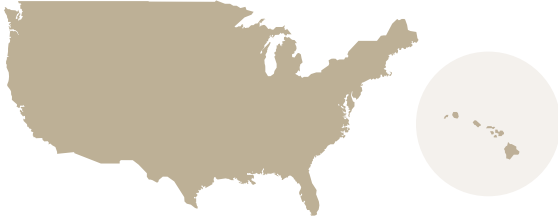


AEI Centers

87 Comprehensive

11 Focused

United States

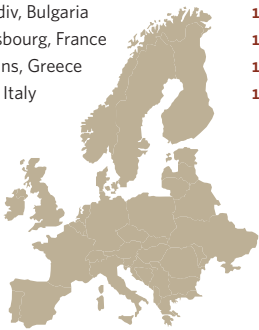


- 1 Phoenix, AZ
- 1 La Jolla, CA
- 3 Los Angeles, CA
- 1 Orange, CA
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- 1 Sacramento, CA
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- 1 Stanford, CA
- 1 Parker, CO
- 1 Hartford, CT
- 2 Washington, DC
- 1 Newark, DE
- 1 Celebration, FL
- 1 Tampa, FL
- 1 Atlanta, GA
- 1 Tripler Army Medical Center, HI
- 1 Iowa City, IA
- 4 Chicago, IL
- 1 Evanston, IL
- 1 Peoria, IL
- 1 Indianapolis, IN
- 1 Wichita, KS
- 2 New Orleans, LA

- 1 Shreveport, LA
- 4 Boston, MA
- 1 Burlington, MA
- 1 Springfield, MA
- 1 Bethesda, MD
- 1 Ann Arbor, MI
- 1 Detroit, MI
- 1 Royal Oak, MI
- 1 Southfield, MI
- 1 Minneapolis, MN
- 1 Rochester, MN
- 1 St. Louis, MO
- 1 Chapel Hill, NC
- 1 Charlotte, NC
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- 1 Morristown, NJ
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- 1 Houston, TX
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- 1 Seattle, WA
- 1 Tacoma, WA
- 1 Madison, WI

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- 1 Strasbourg, France
- 1 Athens, Greece
- 1 Pisa, Italy
- 1 Santander, Spain
- 1 Lund, Sweden
- 1 Stockholm, Sweden
- 1 London, United Kingdom



Canada

- 1 London, Ontario
- 1 Toronto, Ontario
- 1 Montreal, Quebec



South America

- 1 Buenos Aires, Argentina



Middle East

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- 1 Dubai, United Arab Emirates





633 North Saint Clair Street
Chicago, IL 60611-3295
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