



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

2021 Annual Data Report

facs.org/aei



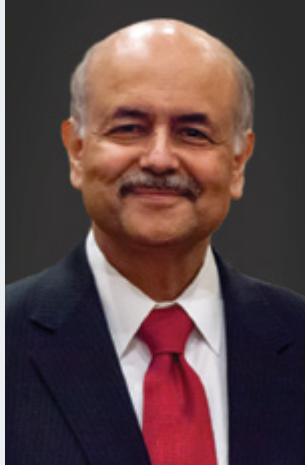
100+years

AMERICAN COLLEGE OF SURGEONS
*Inspiring Quality:
Highest Standards, Better Outcomes*

AMERICAN COLLEGE OF SURGEONS
DIVISION OF EDUCATION
Blended Surgical Education and Training for Life®



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ENHANCING PATIENT SAFETY THROUGH SIMULATION



Today's surgeons, clinicians, and students have the expectation that simulation centers are part of lifelong healthcare education, and Accredited Education Institutes (AEIs) are at the forefront. We can all agree these have been challenging years that have never been experienced before by AEIs or the medical profession. Our AEIs have demonstrated resilience, creativity, and innovation in ways that were never imagined, delivering quality education and training in a safe manner while still complying with accreditation standards. The American College of Surgeons (ACS) commends your ongoing commitment to your learners and looks forward to supporting your efforts throughout the year.

With best regards,

Ajit K. Sachdeva, MD, FACS, FRCSC, FSACME, MAMSE

Director, Division of Education

Chair, ACS Program for Accreditation of Education Institutes

American College of Surgeons



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Overview

Each year, Accredited Education Institutes 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 this report as a service to the AEI Consortium.

From academic teaching centers to healthcare delivery systems, AEIs can be found in a variety of settings. To acknowledge the similarities and differences among our centers, the report includes a series of tables with data broken down by center type, size, and budget, enabling centers to benchmark and gain a better understanding of where they fit in the AEI Consortium.

The aggregated information published in this annual report is based upon self-reporting by AEIs. The 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 do not conform to the reporting instructions.

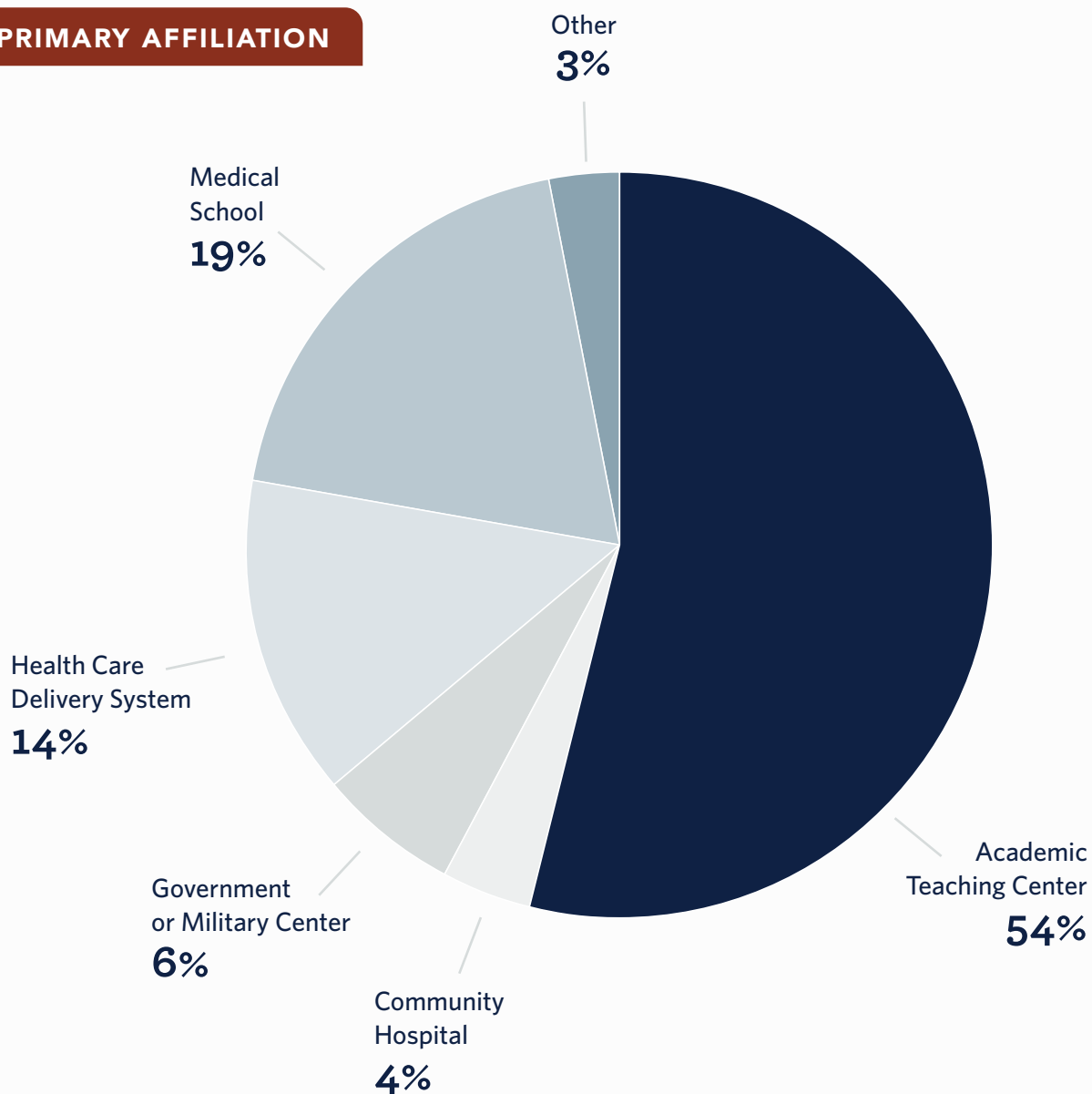
2021 Data Points

Makeup of Respondents (91)

Focused AEs—10

Comprehensive AEs—85

PRIMARY AFFILIATION

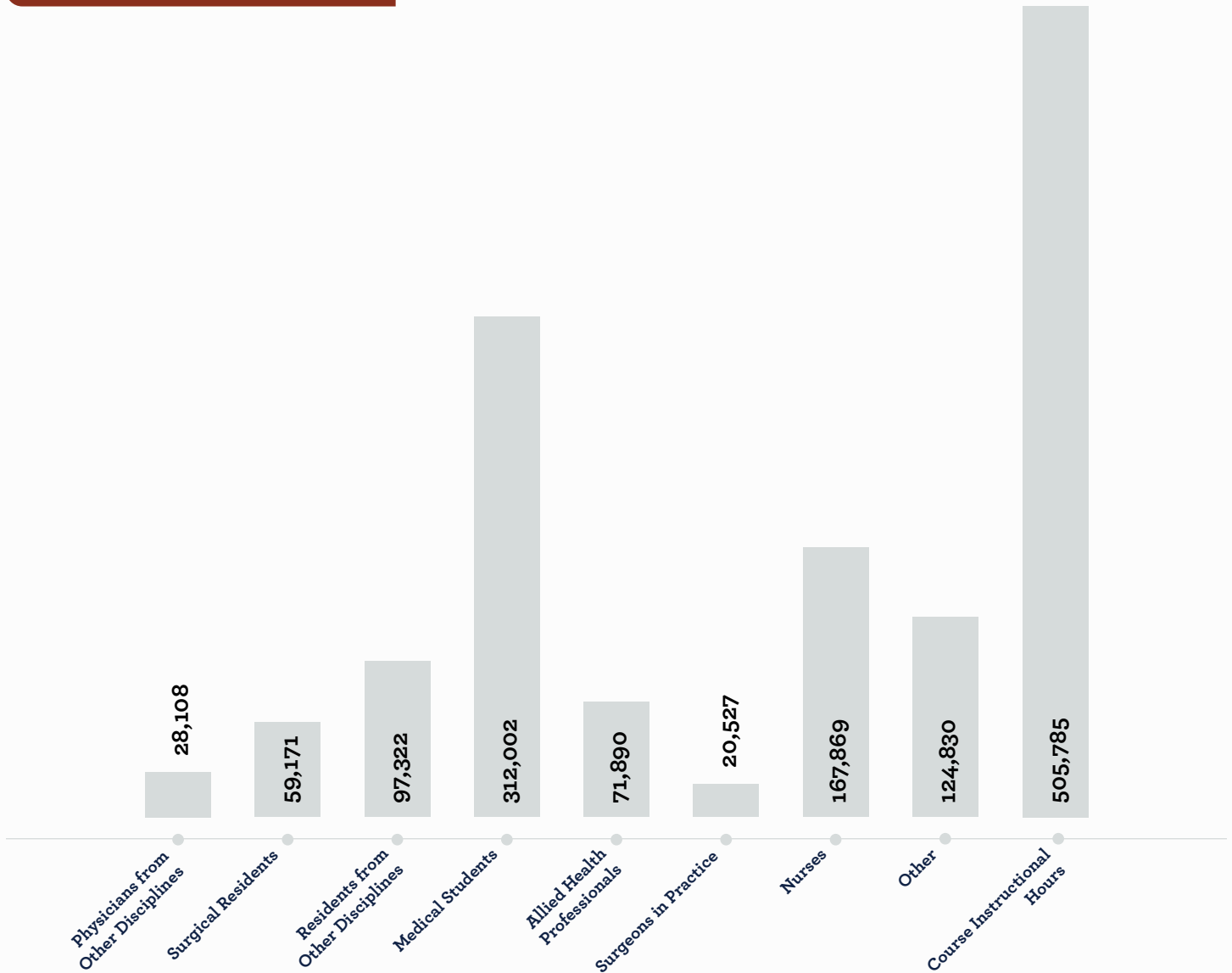


QUICK INSIGHT: Approximately half (51%) of AEs selected "Academic Teaching Center" as their primary affiliation.

Learner Encounters

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.

LEARNER ENCOUNTERS



COURSE INSTRUCTIONAL HOURS

Average: **5,324** | Total: **505,785**

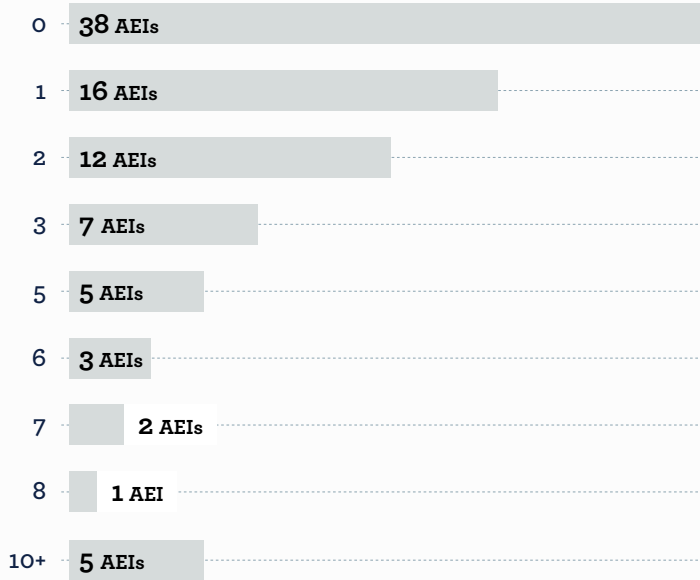
NUMBER OF CME ACTIVITIES

Average: **65** | Total: **6,220**

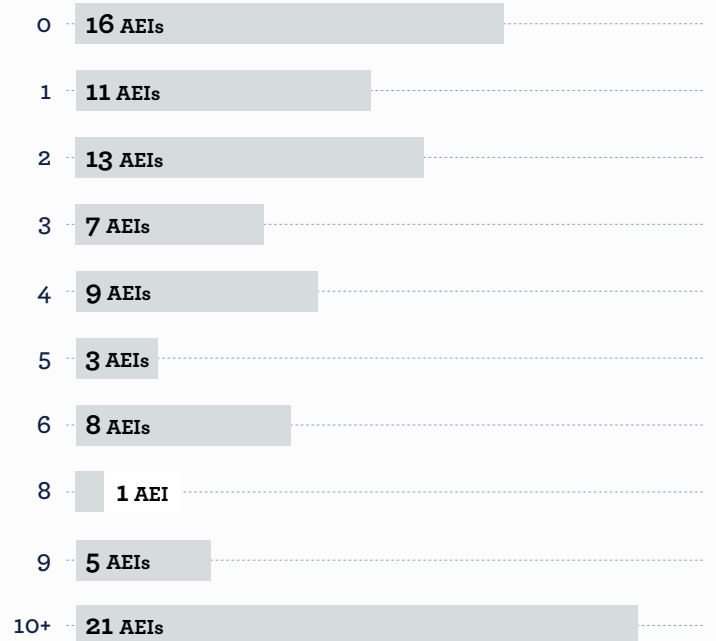
Curriculum

Comprehensive AEIs must demonstrate innovation by developing original curricula. Curricula used by Comprehensive and Focused AEIs, 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 AEIs were asked to respond to the questions below.

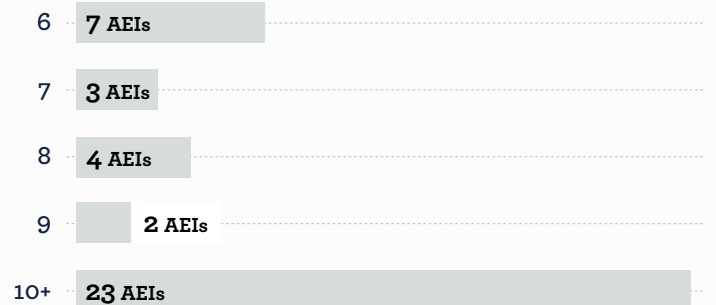
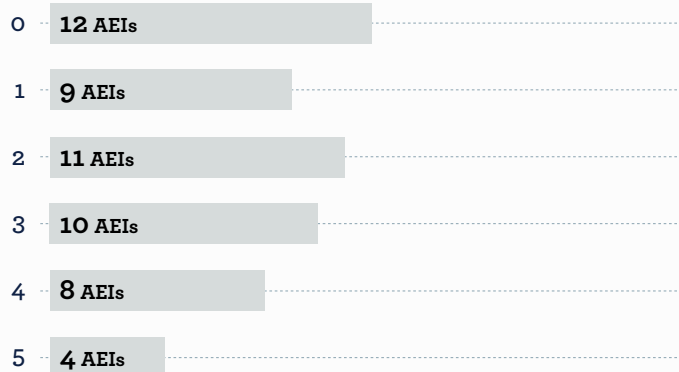
NUMBER OF CURRICULA ADOPTED



NUMBER OF ORIGINAL CURRICULA



NUMBER OF CURRICULA IMPLEMENTED

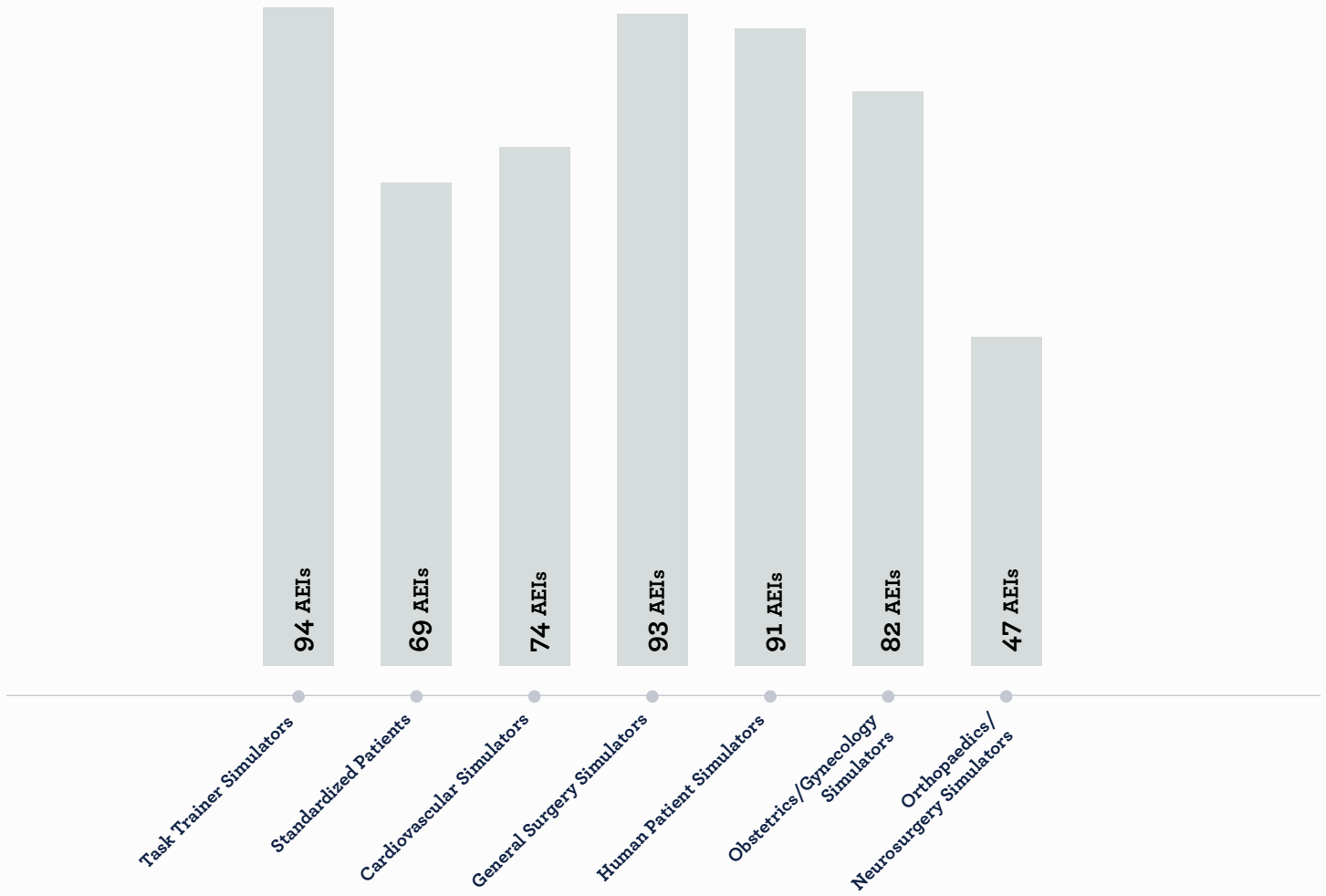


QUICK INSIGHT: More than 436 curricula were created and 214 were adopted.

Simulators

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

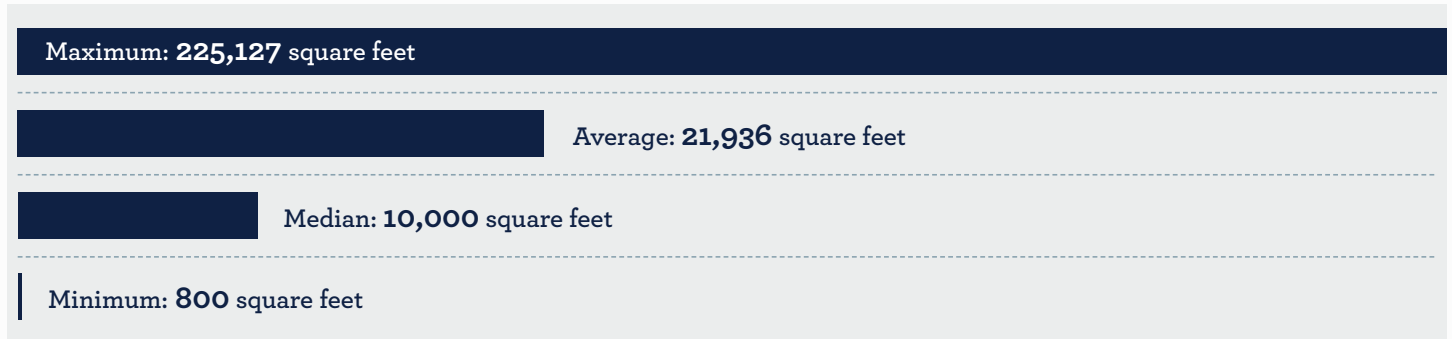
TYPES OF SIMULATORS



Space

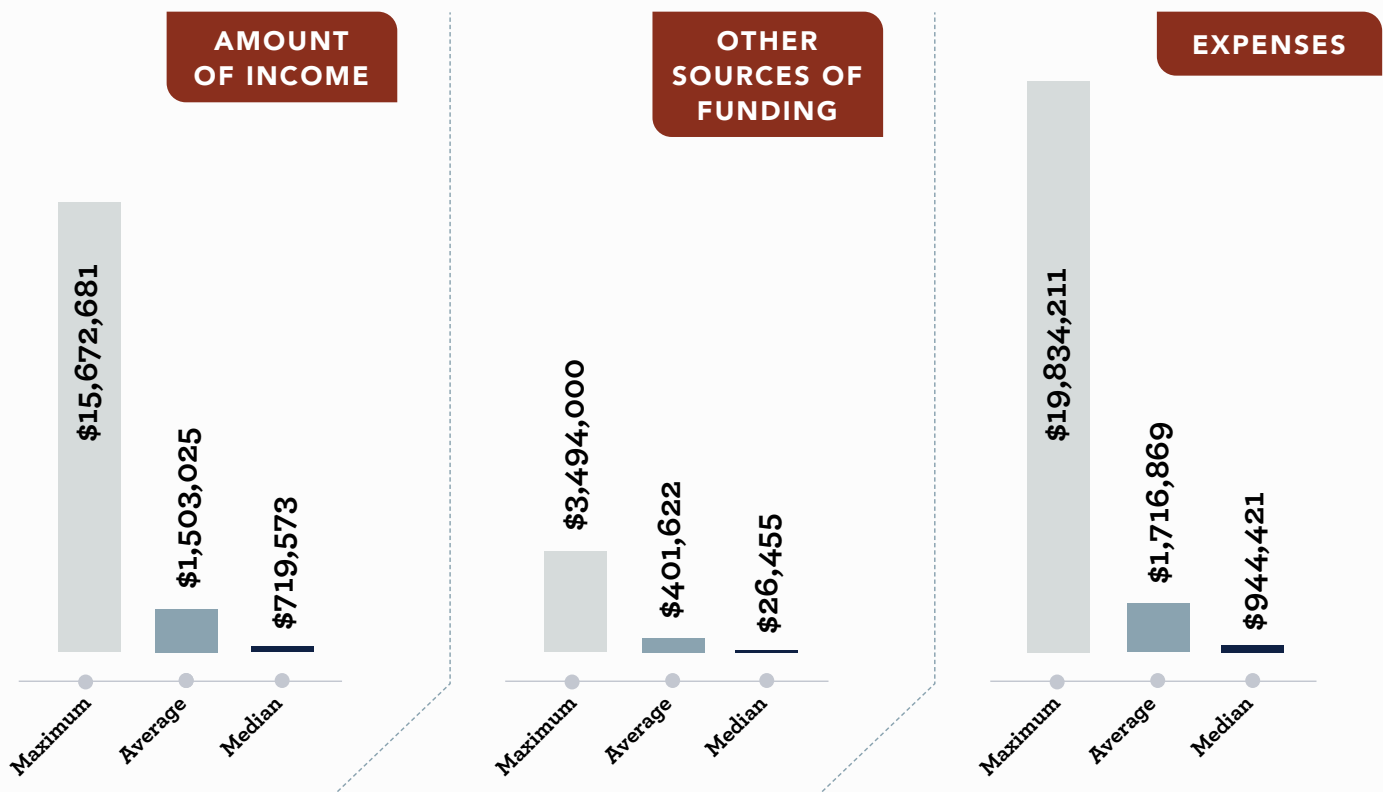
Comprehensive AEIs are required to have no less than 1,200 square feet of contiguous space dedicated to education and training, and under the direct control of the Institute. Focused AEIs are required to have 800 dedicated square feet. The figures below do not include the additional 4,000 square feet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

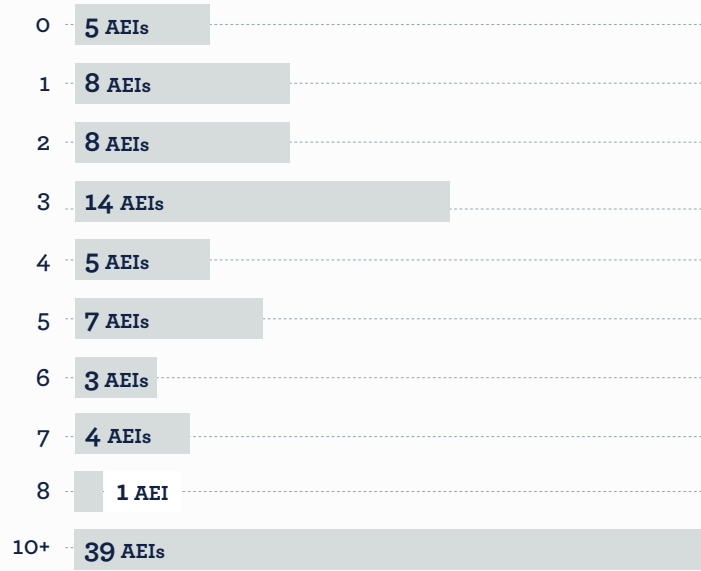
AEIs provide budgetary information to confirm that resources are available to support the Institute.



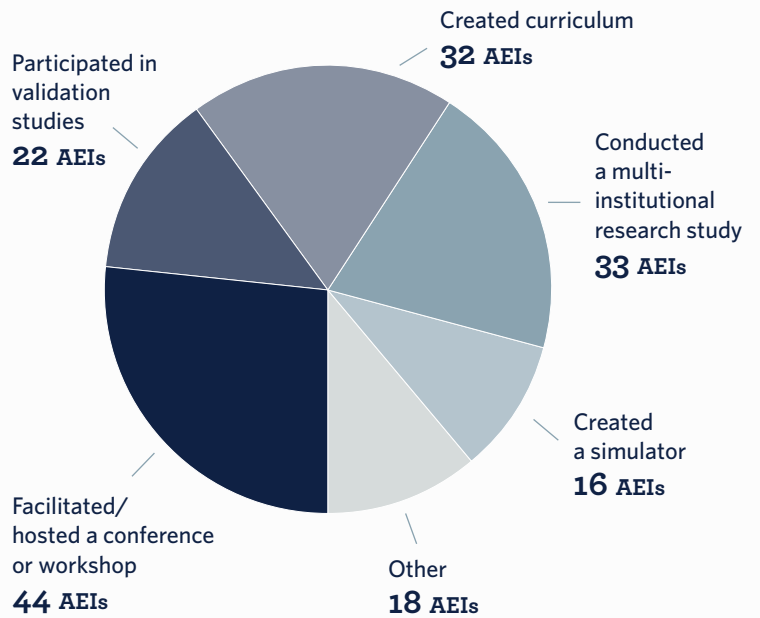
Research, Scholarly Activities, and Collaboration

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

NUMBER OF RESEARCH OR SCHOLARLY ACTIVITIES



COLLABORATIVE PROJECTS WITH OTHER AEIS



TYPES OF RESEARCH OR SCHOLARLY ACTIVITIES



QUICK INSIGHT: AEIs were involved in more than 570 research/scholarly activities.

Key Data Points by Type—Comprehensive or Focused

Values	Comprehensive	Focused
Number of AElS by Type	85	10
Average Square Feet	23,544	8,431
Average Expenses	\$1,855,339	\$539,882
Average Income	\$1,619,894	\$509,635
Average of "Other Sources of Funding"	\$441,307	\$72,242
Average Number of Learners	10,680	1,364
Average Number of Learners—Physicians from other Disciplines	327	33
Average Number of Learners—Surgical Residents	648	411
Average Number of Learners—Residents from other Disciplines	1,133	113
Average Number of Learners—Medical Students	3,648	196
Average Number of Learners—Allied Health	850	62
Average Number of Learners—Surgeons in Practice	217	227
Average Number of Learners—Nurses	1,962	109
Average Number of Learners—Other	1,501	32
Average Number of Course Hours	5,906	377
Average Number of CME Activities	73	3
Average Number of Adopted Curricula	2	1
Average Number of Original Curricula	3	2
Average Number of Curricula Implemented	3	2
Average Number of Research or Scholarly Activities	3	2

Key Data Points by Affiliation

Annual Values	Academic Teaching Center	Community Hospital	Government or Military Center	Health Care Delivery System	Medical School	Other
Number of AElS By Affiliation	51	4	6	13	18	3
Average Square Feet	22,956	7,688	15,441	24,466	19,326	41,633
Average Expenses	\$1,536,398	\$342,642	\$2,569,178	\$2,335,162	\$1,710,090	\$2,273,975
Average Income	\$1,280,531	\$276,631	\$1,351,534	\$1,994,762	\$2,030,118	\$1,930,173
Average of Other Sources of Funding	\$329,326	\$15,864	\$1,071,326	\$481,816	\$362,117	\$697,758
Average Number of Learners	9,143	1,779	6,773	11,900	15,692	11,612
Average Number of Learners—Physicians from other Disciplines	265	28	350	377	285	779
Average Number of Learners—Surgical Residents	604	484	274	689	550	1,974
Average Number of Learners—Residents from other Disciplines	837	278	966	1,292	1,239	3,158
Average Number of Learners—Medical Students	3,515	400	1,147	918	4,582	9,952
Average Number of Learners—Allied Health	690	81	436	912	1,140	1,305
Average Number of Learners—Surgeons in Practice	130	24	181	335	376	583
Average Number of Learners—Nurses	1,316	374	1,094	5,417	753	2,916
Average Number of Learners—Other	1,198	18	1,496	1,557	1,330	4,701
Average Number of Course Hours	6,320	713	10,184	4,710	2,894	2,065
Average Number of CME Activities	7	0	17	409	15	54
Average Number of Adopted Curricula	1	1	3	2	2	2
Average Number of Original Curricula	3	2	4	4	3	2
Average Number of Curricula Implemented	3	2	5	3	3	2
Average Number of Research or Scholarly Activities	3	1	5	4	3	2

Key Data Points by Center Square Footage

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	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	829	2,108	4,051	5,935	8,079	9,764	14,896	22,525	34,891	94,073
Number of AElS by Square Feet	3	6	8	15	8	8	17	6	13	10
Average Expenses	\$611,276	\$275,929	\$708,712	\$748,828	\$997,735	\$1,276,004	\$1,665,195	\$1,552,608	\$2,188,359	\$5,783,726
Average Income	\$687,348	\$206,284	\$580,027	\$678,322	\$861,773	\$2,258,145	\$861,263	\$1,349,473	\$1,627,967	\$5,512,401
Average "Other Sources of Funding"	\$72,533	\$94,043	\$233,059	\$142,681	\$391,921	\$835,284	\$617,399	\$102,958	\$610,470	\$362,454
Average Number of Learners	1,707	2,524	8,917	3,661	4,838	7,065	9,290	12,557	20,568	13,761
Average Number of Learners—Physicians from other Disciplines	64	28	271	230	94	341	338	236	603	359
Average Number of Learners—Surgical Residents	459	1,107	1,178	374	448	711	798	360	500	417
Average Number of Learners—Residents from other Disciplines	344	128	1,490	771	686	838	1,170	1,307	1,504	1,299
Average Number of Learners—Medical Students	95	680	3,360	821	1,696	870	2,879	4,179	11,192	2,832
Average Number of Learners—Allied Health	88	132	209	318	179	668	546	1,260	1,552	2,113
Average Number of Learners—Surgeons in Practice	6	68	174	133	97	524	235	98	158	511
Average Number of Learners—Nurses	529	135	647	708	670	2,021	1,880	2,876	1,798	5,503
Average Number of Learners—Other	146	296	1,846	406	968	1,093	1,445	2,242	3,533	726
Average Number of Course Hours	1,383	493	1,952	4,517	5,350	13,875	3,774	3,534	9,938	4,557
Average Number of CME Activities	1	2	8	4	14	10	15	849	9	42
Average Number of Adopted Curricula	1	4	2	1	3	0	2	0	2	2
Average Number of Original Curricula	3	4	2	3	3	3	5	2	2	2
Average Number of Curricula Implemented	3	4	3	3	4	3	5	2	3	2
Average Number of Research or Scholarly Activities	2	1	2	2	4	7	4	3	4	3

Membership



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AEI CENTERS

Membership current as of January 2022.



Membership Detailed

UNITED STATES



- | | | | |
|---------------------|-----------------------------------|---------------------|---------------------------|
| 1 Phoenix, AZ | 1 Atlanta, GA | 1 Springfield, MA | 1 Oklahoma City, OK |
| 3 Los Angeles, CA | 1 Tripler Army Medical Center, HI | 1 Annapolis, MD | 2 Portland, OR |
| 1 Orange, CA | 1 Iowa City, IA | 1 Bethesda, MD | 1 Allentown, PA |
| 1 Pasadena, CA | 4 Chicago, IL | 1 Ann Arbor, MI | 1 Hershey, PA |
| 1 Sacramento, CA | 1 Evanston, IL | 1 Detroit, MI | 1 Johnstown, PA |
| 1 San Diego, CA | 1 Peoria, IL | 1 Pontiac, MI | 3 Philadelphia, PA |
| 1 San Francisco, CA | 1 Indianapolis, IN | 1 Royal Oak, MI | 1 Nashville, TN |
| 1 Stanford, CA | 1 Fort Wayne, IN | 1 Southfield, MI | 1 Knoxville, TN |
| 1 Parker, CO | 1 Wichita, KS | 1 Minneapolis, MN | 2 Dallas, TX |
| 1 Hartford, CT | 2 New Orleans, LA | 1 Rochester, MN | 1 Galveston, TX |
| 2 Washington, DC | 1 Shreveport, LA | 1 St. Louis, MO | 1 Houston, TX |
| 1 Newark, DE | 3 Boston, MA | 1 Omaha, NE | 1 JBSA-Ft Sam Houston, TX |
| 1 Celebration, FL | 1 Burlington, MA | 1 Chapel Hill, NC | 1 Temple, TX |
| 1 Tampa, FL | | 1 Charlotte, NC | 1 Salt Lake City, UT |
| | | 1 Durham, NC | 1 Falls Church, VA |
| | | 1 Winston Salem, NC | 1 Norfolk, VA |
| | | 1 Morristown, NJ | 1 Portsmouth, VA |
| | | 1 Albuquerque, NM | 1 Richmond, VA |
| | | 3 New York, NY | 1 Burlington, VT |
| | | 1 Cleveland, OH | 1 Seattle, WA |
| | | 2 Columbus, OH | 1 Tacoma, WA |
| | | 1 Toledo, OH | 1 Madison, WI |

EUROPE

- 1 Plovdiv, Bulgaria
- 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 Barretos, Sao Paulo, Brazil



MIDDLE EAST

- 1 Riyadh, Saudi Arabia
- 1 Dubai, United Arab Emirates





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