

FACT BOOK



Mission: The Carl R. Ice College of Engineering will educate the next generation of diverse and inclusive technological leaders through the dissemination and creation of knowledge and scholarly activity that results in a safe, sustainable and secure society.

Vision: The Carl R. Ice College of Engineering shall be the preeminent institution of higher learning in the education, development and application of innovative technology for the state of Kansas.

Metrics: The following metrics were selected to measure our progress against the vision:

- Diversity and enrollment of B.S./M.S./Ph.D. students
- Degree progression and placement of graduates
- Research expenditures and creative work
- Faculty and staff professional development and advancement
- Philanthropic support

Programs of Study

	<u>B.S.</u>	<u>M.S.</u>	<u>Ph.D.</u>
Agricultural Technology Management	X		
Architectural Engineering	X	X	
Biological and Agricultural Engineering		X	X
Biological Systems Engineering	X		
Biomedical Engineering	X		
Chemical Engineering	X	X	X
Civil Engineering	X	X	X
Computer Engineering	X		
Computer Science	X	X	X
Construction Science and Management	X		
Cybersecurity	X		
Electrical and Computer Engineering		X	X
Electrical Engineering	X		
Engineering Management		X	
Environmental Engineering	X		
Industrial Engineering	X	X	X
Mechanical Engineering	X	X	X
Nuclear Engineering		X	X
Operations Research		X	

College Administration

Title	Name	Phone	Email
Dean	Dr. Matthew O'Keefe	785-532-5590	mjokeefe@k-state.edu
Senior Associate Dean	Dr. Gary Clark	785-532-5590	gac@k-state.edu
Associate Dean , Engineering Research and Graduate Programs	Dr. Stacy Hutchinson	785-532-5844	sllhutch@k-state.edu
Assistant Deans Recruitment Retention, Diversity and Inclusion Student Services	Mr. Craig Wanklyn Dr. Amy Betz Mr. Andy Fund	785-532-5455 785-532-5105 785-532-5592	cwanklyn@k-state.edu arbetz@k-state.edu andfund@k-state.edu
Directors Communications and Marketing Development Engineering Computing Services Multicultural Engineering Program	Ms. Kelsie Jones Ms. Jenna Brown Mr. Raymond Clotfelter Ms. LaVerne Bitsie-Baldwin	785-532-5446 785-775-2043 785-532-3017 785-532-5949	kelsiejones@k-state.edu jennab@ksufoundation.org ray@k-state.edu lbaldwin@k-state.edu

Academic Departments, Centers and Institutes

Academic Departments

Architectural Engineering and Construction Science
Biological and Agricultural Engineering
Chemical Engineering
Civil Engineering
Computer Science
Electrical and Computer Engineering
Industrial and Manufacturing Systems Engineering
Mechanical and Nuclear Engineering

Name

Mr. Ray Buyle
Dr. Mark Wilkins
Dr. Jennifer Anthony
Dr. Christopher Jones*
Dr. Scott DeLoach
Dr. Don Gruenbacher
Dr. Bradley Kramer
Dr. Steven Eckels

Phone

785-532-5964
785-532-5580
785-532-5584
785-532-5862
785-532-6350
785-532-5600
785-532-5606
785-532-5610

Email

rbuyle@k-state.edu
mrwilkins@k-state.edu
anthonyj@k-state.edu
jonesca@k-state.edu
sdeloach@k-state.edu
grue@k-state.edu
bradleyk@k-state.edu
eckels@k-state.edu

Centers and Institutes

Center for Artificial Intelligence and Data Science (CS dept.)
Center for Cybersecurity and Trustworthy Systems (CS dept.)
Center for Hazardous Substance Research (CHE dept.)
Cognitive and Neurobiological Approaches to Plasticity Center (ECE dept.)
Engineering Research and Graduate Programs
Engineering Extension
Institute for Environmental Research (MNE dept.)
Pollution Prevention Institute (Engr. Ext.)
Semiconductor Materials and Radiological Technologies Lab (MNE dept.)
Technology Development Institute
University Transportation Center (CE dept.)

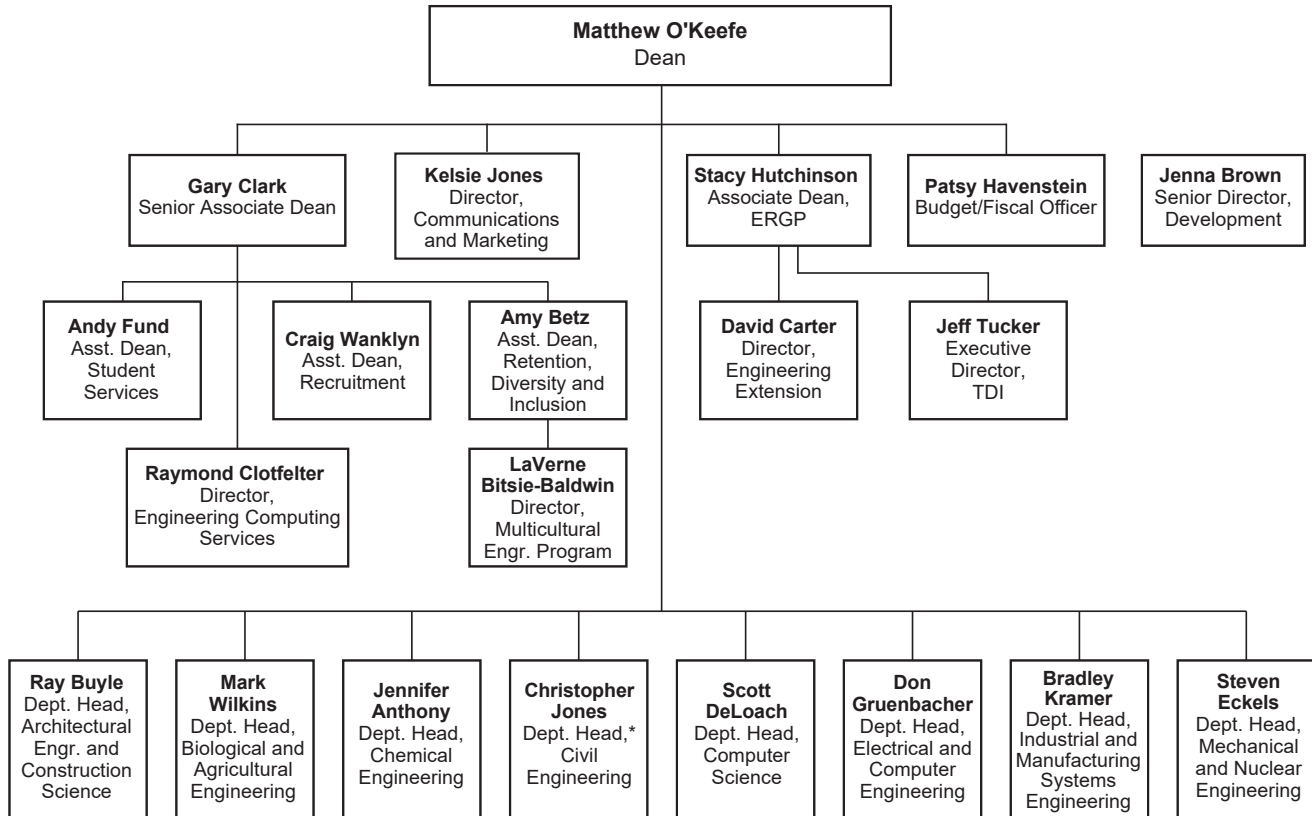
Dr. Pascal Hitzler
Dr. Eugene Vasserman
Mr. Blase Leven
Dr. David Thompson
Dr. Stacy Hutchinson
Mr. David Carter
Dr. Steven Eckels
Ms. Nancy Larson
Dr. Douglas McGregor
Mr. Jeff Tucker
Dr. Mustaque Hossain

785-532-7951
785-532-7941
785-532-0780
785-532-5600
785-532-5844
785-532-6026
785-532-5620
785-532-6026
785-532-7057
785-532-7044
785-532-5862

hitzler@k-state.edu
eyv@k-state.edu
baleven@k-state.edu
davet@k-state.edu
sllhutch@k-state.edu
dcarter@k-state.edu
eckels@k-state.edu
nlarson@k-state.edu
mcgregor@k-state.edu
jwttuck@k-state.edu
mustak@k-state.edu

*Interim

College Leadership Structure



*Interim

Deans of the Carl R. Ice College of Engineering

Name	Term
Edmund B. McCormick	1908 - 1913
A. A. Potter	1913 - 1920
Roy A. Seaton	1920 - 1949
M. A. Durland	1949 - 1961
John Shupe (Acting)	1961 - 1963
Paul Russell	1963 - 1967
Ralph G. Nevins	1967 - 1973
Donald E. Rathbone	1973 - 1997
Terry S. King	1997 - 2006
Richard R. Gallagher (Interim)	2006 - 2007
John R. English	2007 - 2013
Gary A. Clark (Interim)	2013 - 2014
Darren M. Dawson	2014 - 2019
Gary A. Clark (Interim)	2019 - 2020
Matthew J. O'Keefe	2020 -

Carl R. Ice College of Engineering Advisory Council

Member

Steve Blume
Blake Brosa
Chrysta Castañeda
Tim Chadwick
Richard A. Fornelli
Don Glaser

Deyona “Dee” Hays

Bryce Huschka

Karl Miller

Mark Nyquist

Anita Ranhotra

David N. Schettler

Simeon O. Terry

Art K. Umble

Jerry Westhoff

Jason Wollum

Jane Zhu

Title

Vice President Americas Fuels – Retired

Executive Vice President of Sales

Founder

CEO

Vice President – Retired

Co-Founder and Owner, Vice President
of Product Development – Retired

CEO

North America Consumer Marketing and Growth Manager

CEO

CEO – Retired

Distribution Engineering Manager

Executive Vice President, Marketing – Retired

Vice President, Diversity Affairs

Senior Vice President, Global Wastewater Treatment Sector Leader

President

Chief Sector Officer

Senior Vice President, Veritas Corporate Operations – Retired

Company

ExxonMobil Corporation

Bureau Veritas

The Castañeda Firm

MMC Corp

CH2M

Glendo LLC

Excellence Engineering LLC, HeelzFirst LLC

ExxonMobil Product Solutions Company

Jingoli Power LLC

DynaTen Corporation

Hallmark Cards Inc.

Tenaska Energy

Austin Commercial

Stantec Consulting Services Inc.

J.J. Westhoff Construction Co.

Henderson Companies

Veritas Technologies LLC

Faculty by Rank

Fall Payroll

	2019	2020	2021	2022	2023
Tenured					
Professor	48	47	52	46	49
Associate Professor	37	38	40	39	35
Assistant Professor	1	1	1	1	1
Instructor	0	0	0	0	0
Total	86	86	93	86	85
Tenure Track					
Professor	0	0	0	0	0
Associate Professor	5	4	3	0	0
Assistant Professor	30	30	18	18	18
Instructor	0	0	0	0	0
Total	35	34	21	18	18
Non-Tenure Track					
Professor	1	1	1	2	8
Associate Professor	1	2	2	2	2
Assistant Professor	14	14	16	18	16
Instructor	24	25	27	26	25
Total	40	42	46	48	51
Overall Summary					
Professor	49	48	53	48	57
Associate Professor	43	44	45	41	37
Assistant Professor	45	45	35	37	35
Instructor	24	25	27	26	25
Total Faculty	161	162	160	152	154

Faculty by Gender

Fall Payroll

	2019		2020		2021		2022		2023	
	#	%	#	%	#	%	#	%	#	%
Tenured										
Female	15	17.4%	16	18.6%	16	17.2%	16	18.6%	16	18.8%
Male	71	82.6%	70	81.4%	77	82.8%	70	81.4%	69	81.2%
Total	86		86		93		86		85	
Tenure Track										
Female	4	11.4%	2	5.9%	1	4.8%	2	11.1%	2	11.1%
Male	31	88.6%	32	94.1%	20	95.2%	16	88.9%	16	88.9%
Total	35		34		21		18		18	
Non-Tenure Track										
Female	9	22.5%	11	26.2%	12	26.1%	14	29.2%	16	31.4%
Male	31	77.5%	31	73.8%	34	73.9%	34	70.8%	35	68.6%
Total	40		42		46		48		51	
Summary										
Total Females	28	17.4%	29	17.9%	29	18.1%	32	21.1%	34	22.1%
Total Males	133	82.6%	133	82.1%	133	81.9%	120	78.9%	120	77.9%
Overall Total	161		162		162		152		154	

Head Count by Department

Fall 2023 Payroll

Department	Tenured, Tenure-Track				Non Tenure-Track					Total
	Professor	Assoc Prof	Assist Prof	Total	Professor	Assoc Prof	Assist Prof	Instructor	Total	
Architectural Engr./Const. Sci.	7	4	4	15	1	-	-	2	3	18
Biological and Agricultural Engr.*	4	4	3	11	-	-	-	-	-	11
Chemical Engineering	2	3	3	8	-	1	3	-	4	12
Civil Engineering	6	2	4	12	-	-	1	1	2	14
Computer Science	9	6	1	16	-	-	5	4	9	25
Electrical and Computer Engr.**	7	5	1	13	2.5	-	3	1	6.5	19.5
Industrial and Manuf. Systems Engr.	4	3	1	8	1	-	-	2	3	11
Mechanical and Nuclear Engr.	7	7	2	16	-	1	2	3	6	22
Dean's Office**	3	1	-	4	3.5	-	2	1	6.5	10.5
Engr. Extension	-	-	-	-	-	-	-	11	11	11
Total	49	35	19	103	8	2	16	25	51	154

FTE by Department

Fall 2023 Payroll

Department	Tenured, Tenure-Track				Non Tenure-Track					Total
	Professor	Assoc Prof	Assist Prof	Total	Professor	Assoc Prof	Assist Prof	Instructor	Total	
Architectural Engr./Const. Sci.	7.00	4.00	4.00	15.00	.50	-	-	1.25	1.75	16.75
Biological and Agricultural Engr.*	3.75	4.00	3.00	10.75	-	-	-	-	-	10.75
Chemical Engineering	2.00	3.00	3.00	8.00	-	1.00	3.00	-	4.00	12.00
Civil Engineering	6.00	2.00	4.00	12.00	-	-	1.00	.25	1.25	13.25
Computer Science	9.00	6.00	1.00	16.00	-	-	5.00	3.25	8.25	24.25
Electrical and Computer Engr.**	7.00	5.00	1.00	13.00	2.50	-	2.50	1.00	6.00	19.00
Industrial and Manuf. Systems Engr.	4.00	3.00	1.00	8.00	1.00	-	-	1.40	2.40	10.40
Mechanical and Nuclear Engr.	7.00	7.00	2.00	16.00	-	1.00	2.00	3.00	6.00	22.00
Dean's Office**	3.00	1.00	-	4.00	3.50	-	2.00	1.00	6.50	10.50
Engr. Extension	-	-	-	-	-	-	-	10.70	10.70	10.70
Total	48.75	35.00	19.00	102.75	7.50	2.00	15.50	21.85	46.85	149.60

*Biological and Agricultural Engr. includes Extension FTE

**Split position

Faculty Salary by Rank*

Fall Payroll

Total College		2019	2020	2021	2022	2023
PROFESSOR	Number	40	38	42	37	48
	Maximum	\$184,286	\$188,893	\$188,893	\$201,981	\$214,613
	Minimum	101,171	101,733	101,733	106,978	75,000
	Average	124,646	129,973	131,431	141,921	137,309
ASSOC. PROF.	Number	34	40	42	38	34
	Maximum	\$155,000	\$129,160	\$120,603	\$142,500	\$149,839
	Minimum	70,000	71,750	74,750	78,484	87,574
	Average	100,752	101,296	101,006	106,947	112,986
ASSIST. PROF.	Number	45	44	34	36	34
	Maximum	\$99,910	\$98,400	\$98,000	\$112,564	\$119,897
	Minimum	61,692	60,000	60,000	73,000	73,000
	Average	85,589	81,998	80,391	85,102	88,012
INSTRUCTOR	Number	19	16	17	13	9
	Maximum	\$79,950	\$72,000	\$73,000	\$82,500	\$86,023
	Minimum	48,642	51,577	51,056	54,230	56,074
	Average	65,918	61,824	61,649	69,738	72,897

*All 12-month salaries have been converted to nine-month salaries and part-time individuals are calculated at full-time rate.
Excludes dean, associate deans, assistant deans, department heads, temporary employees and active recruitments

Named Positions

Name	Designee
Tom H. Barrett University Faculty Chair in Chemical Engineering	James Edgar
Terry Beemer Foundation Chair for Engineering Innovation	Ajay Sharda
BHS Construction Cornerstone Teaching Scholar	Steve Schaffner
Boyd D. Brainard Departmental Faculty Chair in Mechanical and Nuclear Engineering	Douglas McGregor
Mark and Brenda Brown Professorship in Electrical and Computer Engineering	David Thompson
Daniel and Judi Burk Cornerstone Teaching Scholar	William Hageman
Daniel and Judi Burk – Carl and Mary Ice Keystone Research Scholar	Arslan Munir
John W. and Dorothy M. Burke Architectural Engineering Chair	Fred Hasler
Nick Chong Keystone Research Scholar	Lior Shamir
Gib and Brenda Compton Construction Science Faculty Award	Future
Merle and Helen Converse Family Cornerstone Teaching Scholar	Open
Matt and Lynn Dassow Cornerstone Teaching Scholar	Future
Darold and Debbie Davis Cornerstone Teaching Scholar	Hayder Rasheed
David and Lynda Dawson Cornerstone Teaching Scholar	Dwight Day
David and Lynda Dawson – Carl and Mary Ice Cornerstone Teaching Scholar	Julie Thornton
Ray and Alysia Dempsey Cornerstone Teaching Scholar	Future
Dow Multicultural Engineering Program Director	LaVerne Bitsie-Baldwin
Martin K. Eby Distinguished Professor	Katie Loughmiller

Continued on next page

Named Positions continued

Name	Designee
Peggy and Gary Edwards Chair in Engineering	Pavithra Prabhakar
Peggy and Gary Edwards Cornerstone Teaching Scholar	Trisha Moore
Peggy and Gary Edwards – Carl and Mary Ice Cornerstone Teaching Scholar	Andrew Duncan
Kevin and Jacquie Elmore Cornerstone Teaching Scholar	Russell Feldhausen
Kevin and Jacquie Elmore – Carl and Mary Ice Cornerstone Teaching Scholar	Josh Weese
Ike and Letty Evans Cornerstone Teaching Scholar	Ray Yunk
Ike and Letty Evans Engineering Chair	Bradley Kramer
Ferguson Family Engineering Professorship	Future
George J. and Alice D. Fiedler Distinguished Chair in Electrical and Computer Engineering	Don Gruenbacher
Fornelli Engineering Professorship	Prathap Parameswaran
Charles and Nona Frankenhoff Chair in Engineering	Mohammad Hosni
James Garrison and Lisa Pfannenstiel-Garrison Agricultural Engineering Faculty	Future
Donald Gemaehlich Electrical and Computer Engineering Professorship	Future
Don and Linda Glaser Cornerstone Teaching Scholar	Kevin Wanklyn
Don and Linda Glaser – Carl and Mary Ice Cornerstone Teaching Scholar	Bill Zhang
Don and Linda Glaser Keystone Research Scholar	Doina Caragea
Don and Linda Glaser – Carl and Mary Ice Keystone Research Scholar	Robby
Jim and Carolyn Grier Construction Science Chair	Shannon Casebeer

Continued on next page

Named Positions continued

Name	Designee
Wayne and Barbara Harms Keystone Research Scholar	Bin Liu
Wayne and Barbara Harms – Carl and Mary Ice Keystone Research Scholar	Jennifer Anthony
Hays Family Endowed Chair in Engineering	Future
William H. Honstead Professor in Chemical Engineering	Bin Liu
Steve Hsu Keystone Research Scholar	Amir Bahadori, Ryan Hansen, Jessica Heier Stamm, Walter McNeil, Bala Natarajan, Jeremy Roberts, Punit Prakash, Caterina Scoglio, Hongyu Wu, Meng (Peter) Zhang
Mark H. and Margaret H. Hulings Chair in Engineering	Robert Peterman
Hutton Family Distinguished Faculty Fund in Construction Science	James Goddard
Carl R. and Mary T. Ice Industrial Engineering Professorship	Shuting Lei
G.E. Johnson Construction Science Chair	Kimberly Kramer
James M. and Laura E. Johnson Engineering Faculty Endowment	Future
Gisela and Warren Kennedy Cornerstone Teaching Scholar	Jessica Heier Stamm
Gisela and Warren Kennedy – Carl and Mary Ice Cornerstone Teaching Scholar	Chih-Hang (John) Wu
Warren and Gisela Kennedy Keystone Research Scholar	Ryan Hansen
Warren and Gisela Kennedy – Carl and Mary Ice Keystone Research Scholar	Mitchell Neilsen
Jeffrey and Joy Lessman Keystone Research Scholar	Jeongdae Im
Jeffrey and Joy Lessman – Carl and Mary Ice Keystone Research Scholar	Suprem Das

Continued on next page

Named Positions continued

Name	Designee
Logan-Fetterhoof Electrical and Computer Engineering Faculty of Distinction Chair	Anil Pahwa
Lucas-Rathbone Professorship in Engineering	John Hatcliff, Hongyu Wu
Louie T. Marshall Engineering Professorship	Behrooz Mirafzal
Steve and Donna McKinnis Chair in Engineering	Future
Max Mechsner Mechanical Engineering Faculty Award	Future
Munger Professorship in Civil Engineering	Mustaque Hossain
Michelle Munson -Serban Simu Keystone Research Scholar	Daniel Andresen
Richard B. and Mary Jo Myers Cornerstone Teaching Scholar	Nathan Bean
Richard B. and Mary Jo Myers - Carl and Mary Ice Cornerstone Teaching Scholar	Hani Melhem
Harold O. and Jane C. Massey Neff Professorship in Mechanical Engineering	Gurpreet Singh, Mingjun Wei
D. Craig and Dalene D. Nelson Cornerstone Teaching Scholar	Jongchul Song
D. Craig and Dalene D. Nelson – Carl and Mary Ice Cornerstone Teaching Scholar	Ronald Brockhoff
Mark C. Nyquist Cornerstone Teaching Scholar	Derek Clements
Mark C. Nyquist – Carl and Mary Ice Cornerstone Teaching Scholar	Lisa Wilken
Clair N. Palmer and Sara M. Palmer Electrical Engineering Professorship	Bala Natarajan
Patrick Parke Engineering Faculty Fellowship	Future

Continued on next page

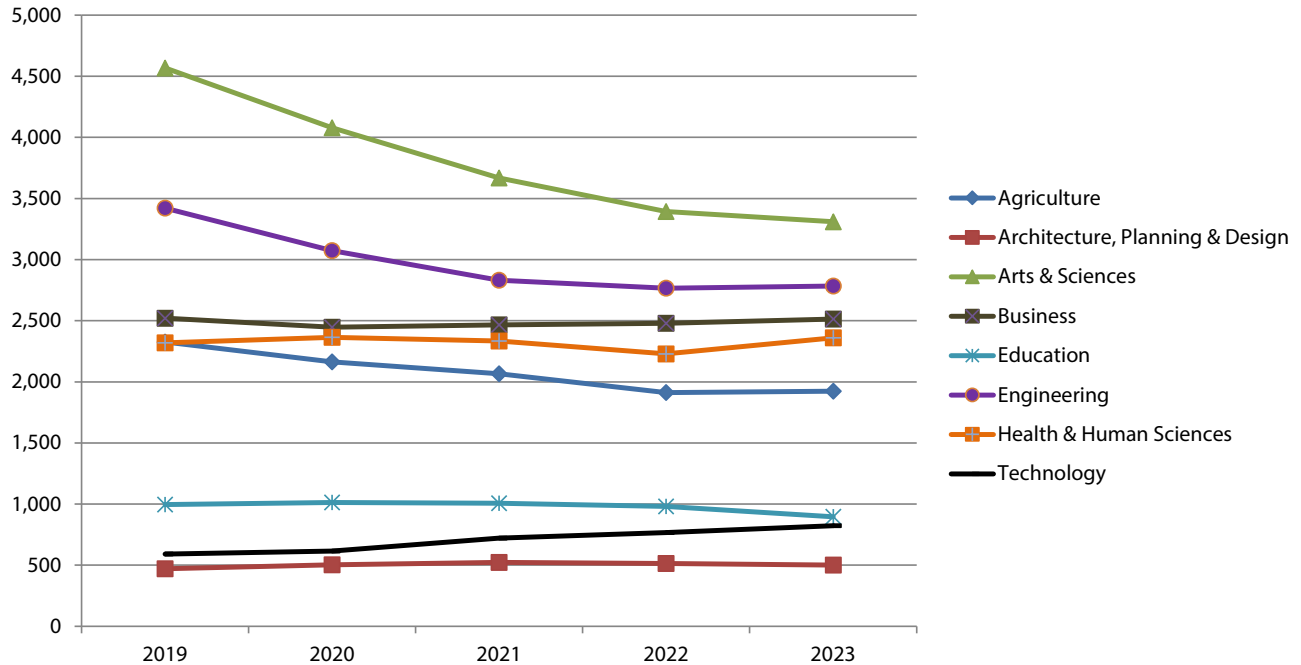
Named Positions continued

Name	Designee
LeRoy C. and Aileen H. Paslay Chair	Matthew O'Keefe
Paslay Professorship in Electrical and Computer Engineering	Caterina Scoglio
Thomas and Connie Paulson Civil Engineering Outstanding Faculty Member	Prathap Parameswaran
Robert and Becca Reichenberger Cornerstone Teaching Scholar	Steve Warren
Robert and Becca Reichenberger – Carl and Mary Ice Cornerstone Teaching Scholar	Donghai Wang
Jim and Sandra Reilly Cornerstone Teaching Scholar	Future
Schonhoff Family Cornerstone Teaching Scholar	Future
G. Rhea Serpan Engineering Faculty of Distinction Chair	Future
James and Robin Siefkin Excellence Teaching Award	Future
Hal and Mary Siegele Professorship in Engineering	Amir Bahadori, Eric Fitzsimmons
Dean A. Skaer Engineering Professorship	Future
Lloyd T. Smith Creativity in Engineering Chair	Pascal Hitzler
Civil Engineering Alumni Professorship Honoring Dr. Robert Snell	Christopher Jones
Paul L. Spainhour Professorship in Electrical Engineering	Punit Prakash
John R. Stack Faculty Award of Structural Engineering	Future
Tim Taylor Chair in Chemical Engineering	Placidus Amama, Jennifer Anthony
Steven M. and Kay L. Theede Chair in Engineering	Steven Eckels
Bob and Betty Tointon Engineering Chair	Julia Keen

Named Positions continued

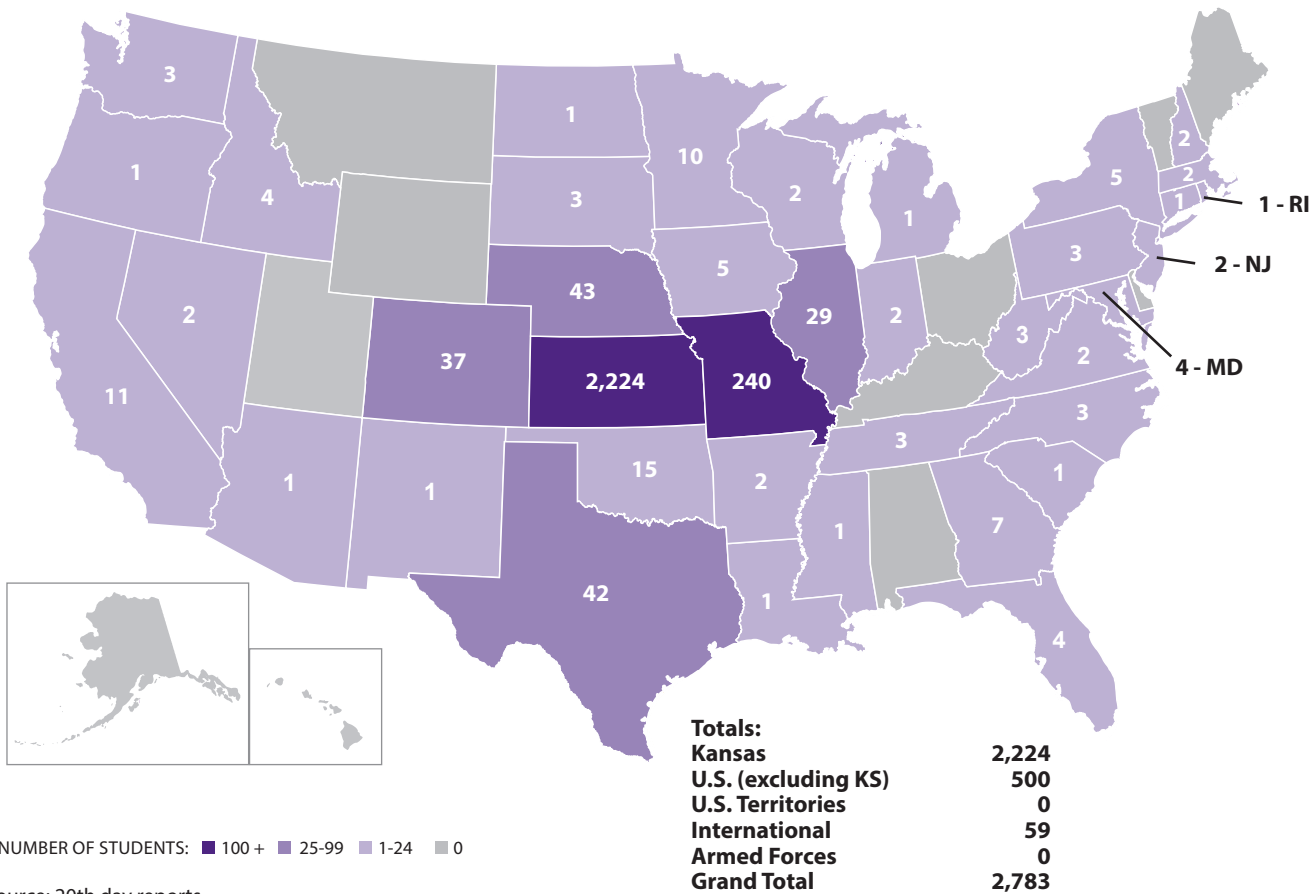
Name	Designee
Tointon Construction Management Chair	Ray Buyle
Wallis-Lage Family Cornerstone Teaching Scholar	Christopher Jones
Wallis-Lage Family – Carl and Mary Ice Cornerstone Teaching Scholar	Katie Loughmiller
Wassenberg Family Cornerstone Teaching Scholar	Future
Patrick Wilburn Keystone Research Scholar	Daniel Flippo
Patrick Wilburn – Carl and Mary Ice Keystone Research Scholar	Ajay Sharda
Dr. Charles E. Wilson Chair in Engineering	Melanie Derby
George Yeh Keystone Research Scholar	Behrooz Mirafzal
George Yeh - Carl and Mary Ice Keystone Research Scholar	Eric Fitzsimmons

Undergraduate Enrollment by College



Source: 20th day reports

Engineering Undergraduate Students by State



Source: 20th day reports

Undergraduate Enrollment by Program

Program	2019	2020	2021	2022	2023
Agricultural Technology Management	-	-	-	57	59
Architectural Engineering	240	219	206	197	191
Biological Systems Engr.*	115	106	87	80	66
Biomedical Engineering	80	84	99	98	87
Chemical Engineering	268	234	206	175	169
Civil Engineering	228	205	194	155	169
Computer Engineering	161	151	134	140	129
Computer Science	578	535	490	446	407
Construction Sci. and Mgmt.	272	253	269	269	301
Cybersecurity	-	-	-	23	43
Electrical Engineering	211	197	169	191	204
Environmental Engineering	-	9	18	37	38
Industrial Engineering	218	172	152	146	167
Mechanical Engineering	859	744	688	681	706
Undeclared	191	164	120	71	47
TOTAL	3,421	3,073	2,832	2,766	2,783

* Includes engineering students only. Agricultural Technology Management was added to the College of Engineering in fall 2022.

Source: 20th day reports

Enrollment by Department

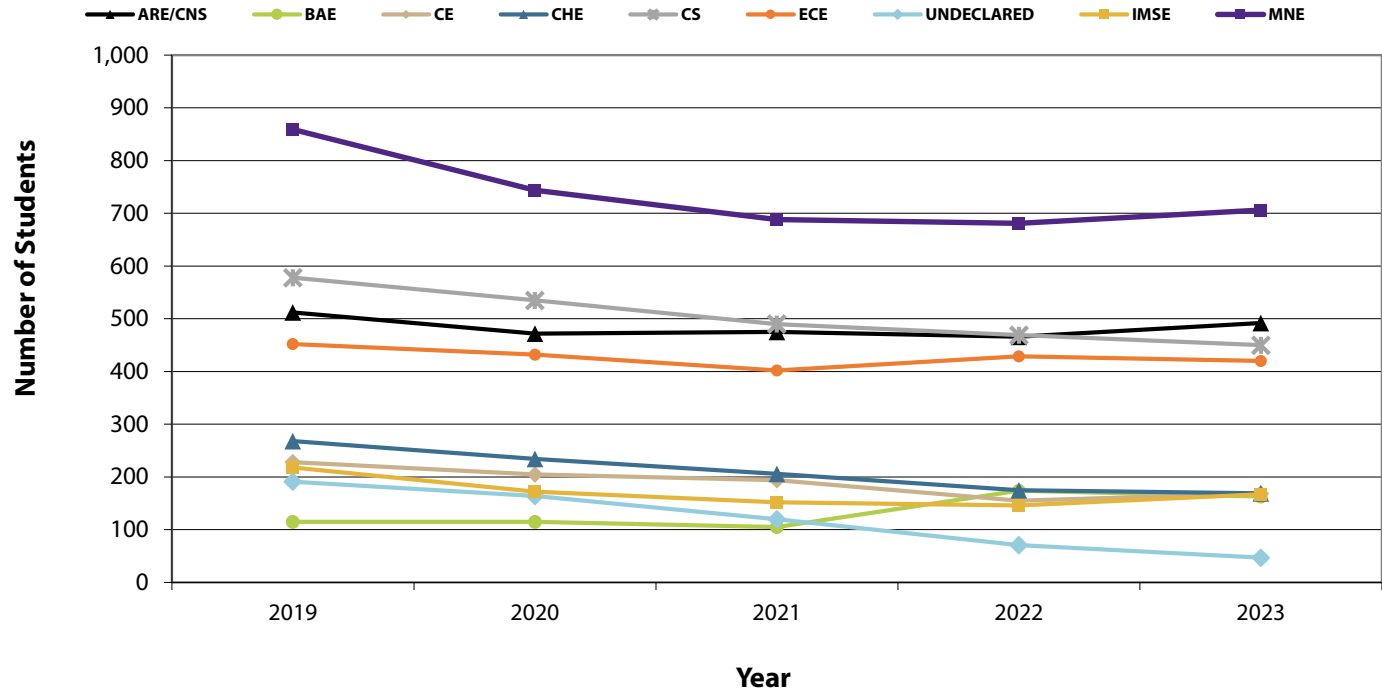
Department	2019			2020			2021			2022			2023		
	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.
Architectural Engr./Const. Sci.	512	8	---	472	6	---	475	5	---	466	12	---	492	12	---
Biological and Agricultural Engr.*	115	7	17	115	8	13	105	10	15	174	21	16	163	13	22
Chemical Engineering	268	13	18	234	11	17	206	18	16	175	16	19	169	13	17
Civil Engineering	228	41	22	205	34	18	194	31	19	155	33	15	169	26	10
Computer Science	578	30	54	535	31	50	490	25	48	469	25	45	450	31	46
Electrical and Computer Engr.	452	28	35	432	22	29	402	21	27	429	18	29	420	20	28
Industrial and Manuf. Syst. Engr.	218	49	25	172	50	22	152	42	21	146	39	17	167	22	16
Mechanical and Nuclear Engr.	859	9	54	744	12	45	688	22	36	681	24	22	706	19	18
Undeclared	191	12	---	164	12	---	120	8	---	71	4	---	47	5	---
TOTAL	3,421	197	225	3,073	186	194	2,832	182	182	2,766	192	163	2,783	161	157

* Biological and Agricultural Engr. enrollments include Agricultural Technology Management students beginning with 2022.

Source: 20th day reports

Undergraduate Enrollment by Department

Fall Data

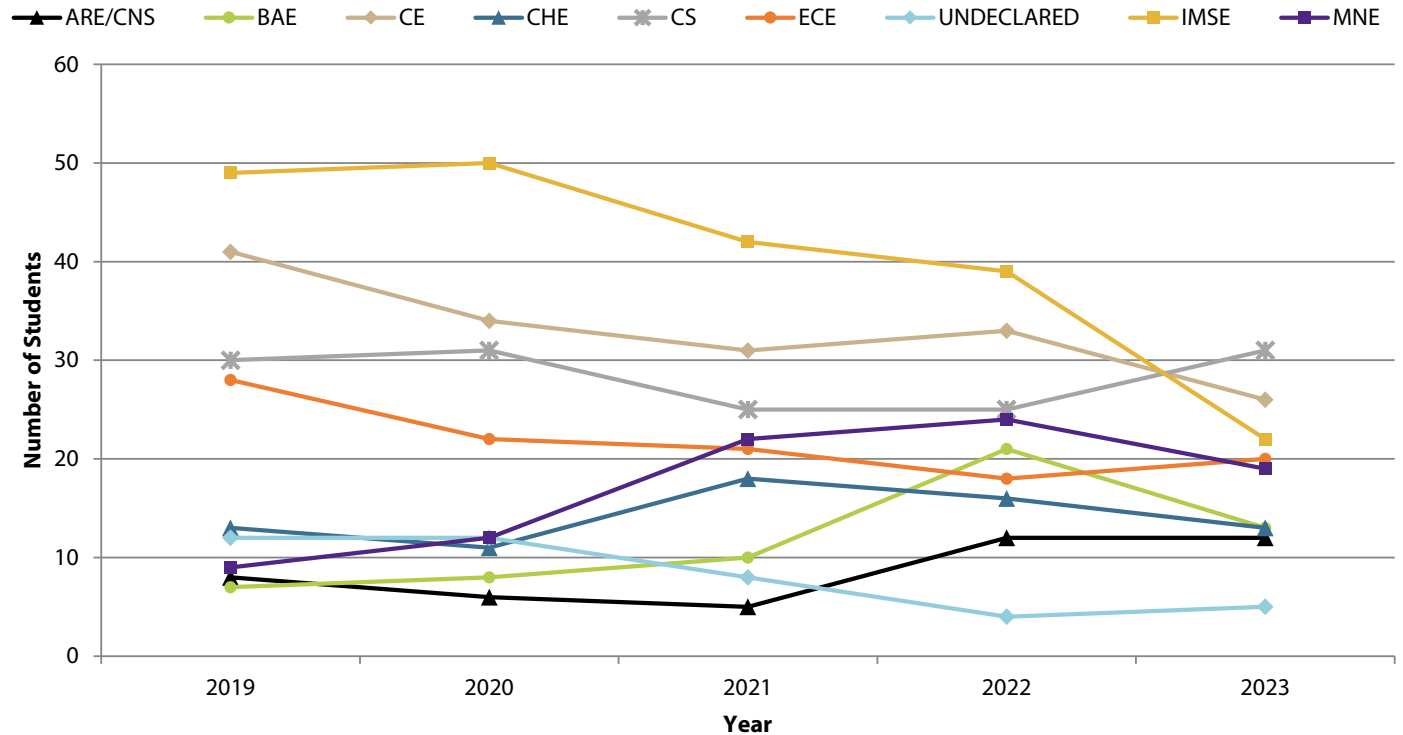


BAE enrollments do not include Agricultural Technology Management students until 2022.

Source: 20th day reports

M.S. Enrollment by Department

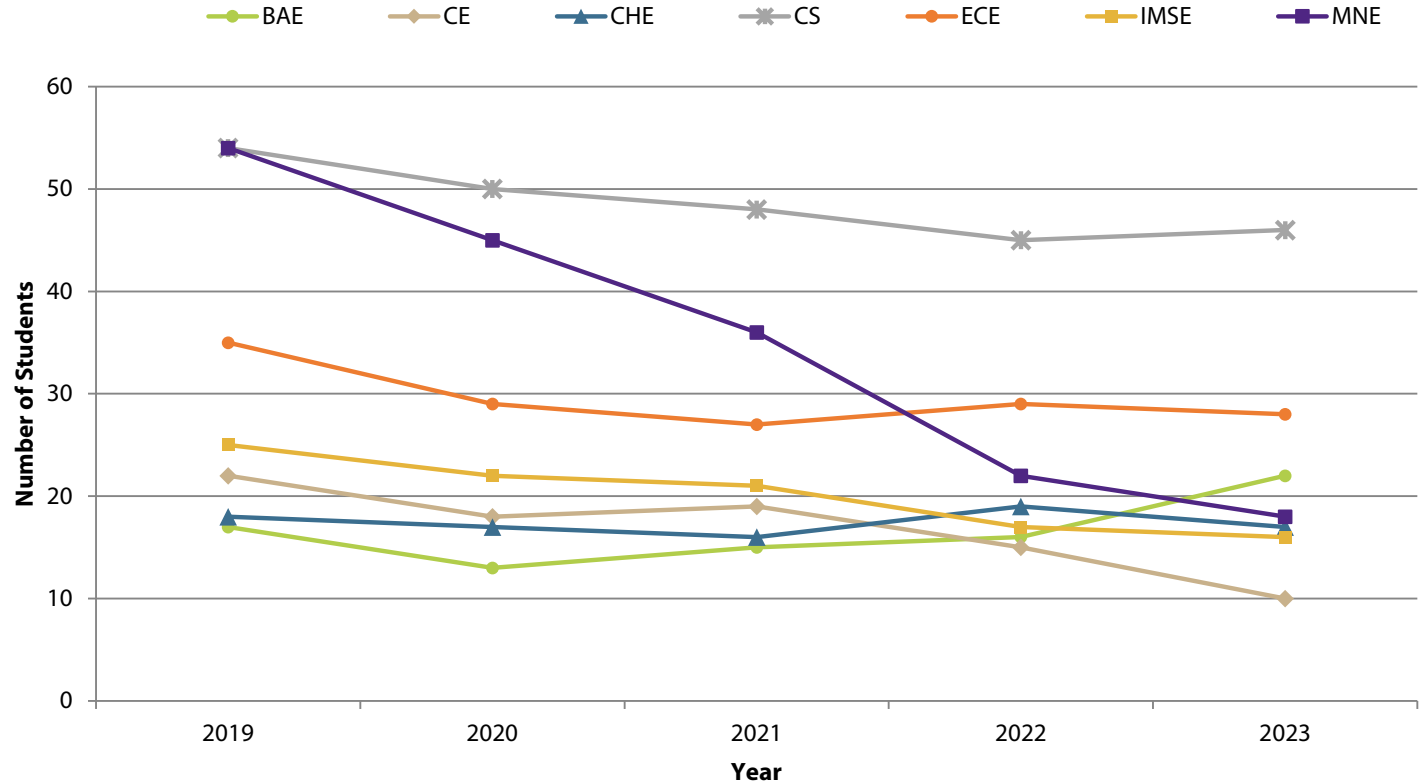
Fall Data



Source: 20th day reports

Ph.D. Enrollment by Department

Fall Data



Source: 20th day reports

CARL R. ICE COLLEGE OF ENGINEERING UNDERGRADUATE STATISTICS FALL 2023

Total Students = 2,783

17.9% Female

14.4% Multicultural*

79.9% Kansas

18% U.S. Non-Kansas

2.1% International (1. Kuwait and Paraguay, 3. Czech Republic, 4. Other)

***Multicultural includes Black, Hispanic, Hawaiian/Pacific Islander, Multiracial and Native American**

CARL R. ICE COLLEGE OF ENGINEERING

M.S. STATISTICS

FALL 2023

Total Students = 161

22.4% Female

11.8% Multicultural*

34.8% Kansas

39.1% U.S. Non-Kansas

26.1% International (1. India, 2. Nepal, 3. Other)

***Multicultural includes Black, Hispanic, Hawaiian/Pacific Islander, Multiracial and Native American**

CARL R. ICE COLLEGE OF ENGINEERING

Ph.D. STATISTICS

FALL 2023

Total Students = 157

29.3% Female

2.5% Multicultural*

14.6% Kansas

5.7% U.S. Non-Kansas

79.7% International (1. India, 2. China and Iran, 4. Other)

***Multicultural includes Black, Hispanic, Hawaiian/Pacific Islander, Multiracial and Native American**

Undergraduate Degrees Granted by Fiscal Year

Program	2019	2020	2021	2022	2023
Architectural Engineering	64	62	65	38	35
Construction Sci. and Mgmt.	60	80	61	69	56
Agricultural Tech. Mgmt.	---	---	---	---	16
Biological Systems Engr.*	38	30	21	24	26
Environmental Engineering	---	---	---	---	3
Chemical Engineering	65	70	54	41	51
Civil Engineering	59	56	49	45	39
Computer Science	97	119	112	105	101
Cybersecurity	---	---	---	---	6
Information Systems	14	---	---	---	---
Biomedical Engineering	---	---	---	17	23
Computer Engineering	17	29	30	30	32
Electrical Engineering	49	60	51	38	19
Industrial Engineering	64	66	57	50	35
Mechanical Engineering	165	216	175	182	140
TOTAL	692	788	675	639	582

*Includes engineering students only through 2022.

Degrees Granted by Fiscal Year

Program	2019			2020			2021			2022			2023			5-yr Avg
	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	B.S.	M.S.	Ph.D.	
Architectural Engineering	64	6	---	62	10	---	65	5	---	38	5	---	35	4	---	---
Construction Sci. and Mgmt.	60	---	---	80	---	---	61	---	---	69	---	---	56	---	---	---
Agricultural Tech Mgmt.	---	---	---	---	---	---	---	---	---	---	---	---	16	---	---	---
Biological and Ag. Engr.*	---	7	5	---	4	3	---	3	4	---	4	2	---	6	1	3.0
Biological Systems Engr.*	38	---	---	30	---	---	21	---	---	24	---	---	26	---	---	---
Environmental Engineering	---	---	---	---	---	---	---	---	---	---	---	---	3	---	---	---
Chemical Engineering	65	5	9	70	6	3	54	2	3	41	2	3	51	4	2	4.0
Civil Engineering	59	12	8	56	13	10	49	14	1	45	12	3	39	8	7	5.8
Computer Science	97	15	2	119	10	2	112	13	12	105	14	10	101	2	8	6.8
Cybersecurity	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---
Information Systems	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Software Engineering	---	5	---	---	3	---	---	---	---	---	2	---	---	1	---	---
Biomedical Engineering	---	---	---	---	---	---	---	---	---	17	---	---	23	---	---	---
Computer Engineering	17	---	---	29	---	---	30	---	---	30	---	---	19	---	---	---
Electrical Engineering	49	---	---	60	---	---	51	---	---	38	---	---	32	---	---	---
Electrical and Computer Engr	---	15	6	---	14	7	---	13	11	---	8	4	---	5	7	7.0
Industrial Engineering	64	15	1	66	8	7	57	3	---	50	6	2	35	5	8	3.6
Engineering Management	---	3	---	---	6	---	---	5	---	---	2	---	---	9	---	---
Operations Research	---	11	---	---	9	---	---	4	---	---	8	---	---	6	---	---
Mechanical Engineering	165	6	3	216	4	5	175	3	4	182	4	8	140	7	8	5.6
Nuclear Engineering	---	---	3	---	4	4	---	---	5	---	---	2	---	4	4	3.6
TOTAL	692	100	37	788	91	41	675	65	41	639	67	34	582	61	45	39.6

Note: Summer, fall and spring of each fiscal year.

* Does not include Agricultural Technology Management (ATM) students whose degrees are conferred through the College of Agriculture.

Student Credit Hours by Fiscal Year

Department	2019	2020	2021	2022	2023
Architectural Engineering and Construction Science	9,165	8,253	7,304	7,457	7,213
Biological and Agricultural Engineering*	2,235	1,985	1,750	1,935	2,129
Chemical Engineering	4,827	4,152	3,633	3,435	3,345
Civil Engineering	7,694	6,372	5,658	5,604	4,847
Computer Science	10,047	10,521	9,958	9,194	9,134
Electrical and Computer Engineering	8,277	8,014	7,423	7,006	6,852
General Engineering	338	301	268	486	749
Industrial and Manufacturing Systems Engineering	5,233	4,702	4,241	3,547	3,470
Mechanical and Nuclear Engineering	12,873	12,472	11,174	9,521	8,455
Total	60,689	56,772	51,409	48,185	46,194

* Includes Agricultural Technology Management

Employment Report - Offer Statistics by Major (Tentative)

Carl R. Ice College of Engineering

Graduation Dates: 8/22, 12/22, 5/23 - Bachelor's Degree

Major	Total Reporting	High Salary	Low Salary	Average Salary	National Salary
ARE	31	\$85,000	\$60,000	\$68,933	No Report
ATM	5	\$72,000	\$52,000	\$64,800	No Report
BME	10	\$82,940	\$57,500	\$70,244	\$71,211
BSE	8	\$76,000	\$30,000	\$62,625	No Report
CE	16	\$75,000	\$57,000	\$67,556	\$70,004
CHE	27	\$120,000	\$63,000	\$81,346	\$73,978
CMPEN	7	\$85,000	\$65,000	\$79,643	\$78,371
CNSM	51	\$82,940	\$53,760	\$67,610	\$64,163
CS	39	\$92,500	\$41,600	\$73,887	\$74,082
CYS	1	\$85,000	\$85,000	\$85,000	No Report
EE	16	\$88,000	\$66,000	\$75,575	\$74,024
ENVE	2	\$65,000	\$60,000	\$62,500	\$72,812
IE	15	\$95,000	\$60,000	\$72,520	\$71,131
ME	56	\$108,000	\$42,000	\$71,740	\$72,144

Sources: Career Center and National Association of Colleges and Employers

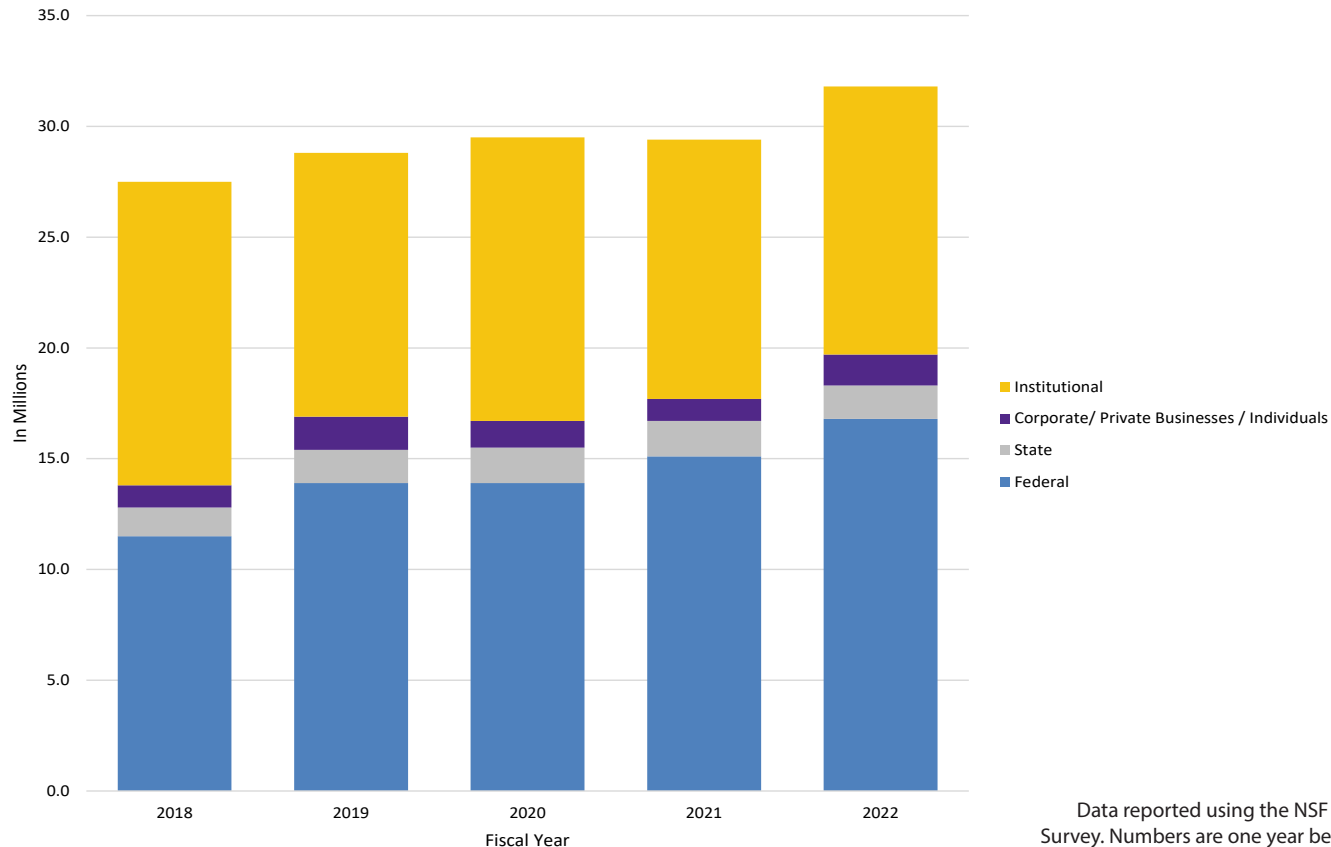
Research Expenditures by Department/Unit

FY2022

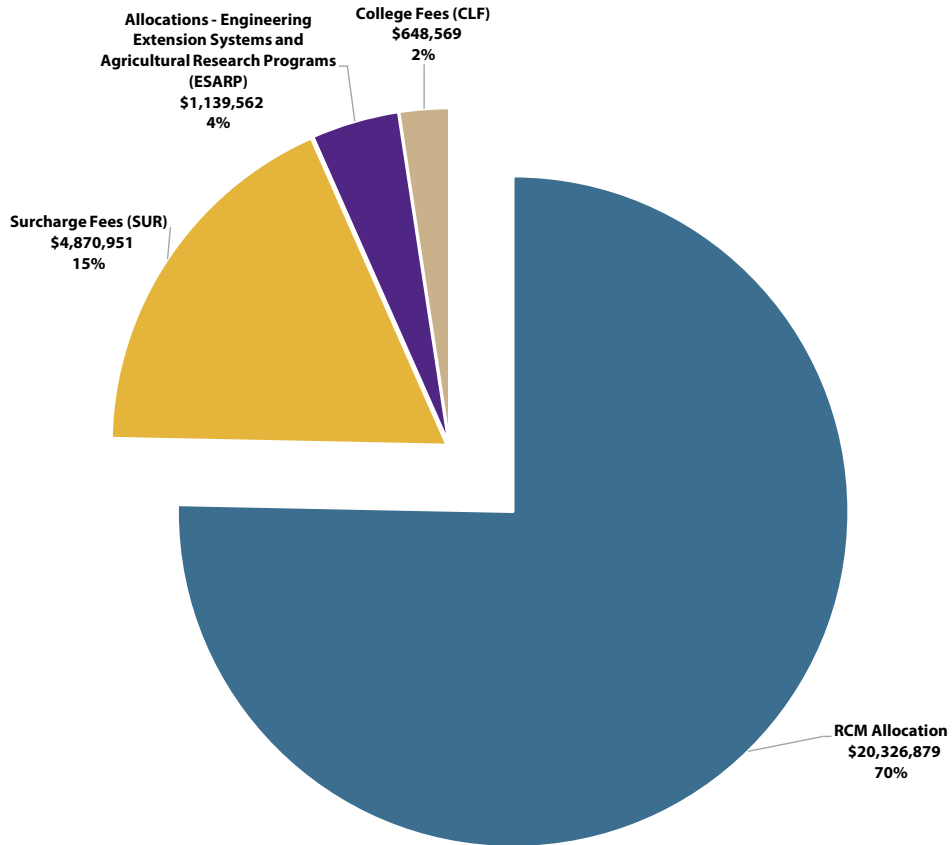
Department	Total Expenditures
Architectural Engineering and Construction Science	\$309,829
Biological and Agricultural Engineering	\$2,715,616
Chemical Engineering:	
Chemical Engineering	\$2,277,372
National Institute for Land Management and Training	-
Center for Hazardous Substance Research	<u>\$2,077,564</u>
Total Chemical Engineering	\$4,354,936
Civil Engineering	\$3,177,947
Computer Science	\$4,172,288
Electrical and Computer Engineering	\$4,182,784
Industrial and Manufacturing Systems Engineering:	
Industrial and Manufacturing Systems Engineering	\$1,546,788
Technology Development Institute	<u>\$3,141,175</u>
Total Industrial and Manufacturing Systems Engineering	\$4,687,963
Mechanical and Nuclear Engineering:	
Mechanical and Nuclear Engineering	\$6,367,884
Institute for Environmental Research	\$808,503
National Gas Machinery Laboratory	<u>\$289,919</u>
Total Mechanical and Nuclear Engineering	\$7,466,305
Kansas Industrial Extension Services	\$126,197
Dean's Office	\$151,787
Engineering Research and Graduate Programs	\$506,541
Total Research Expenditures by Department/Unit	<u><u>\$31,852,191</u></u>

*Based on data reported via the HERD Survey. Numbers are one year behind.

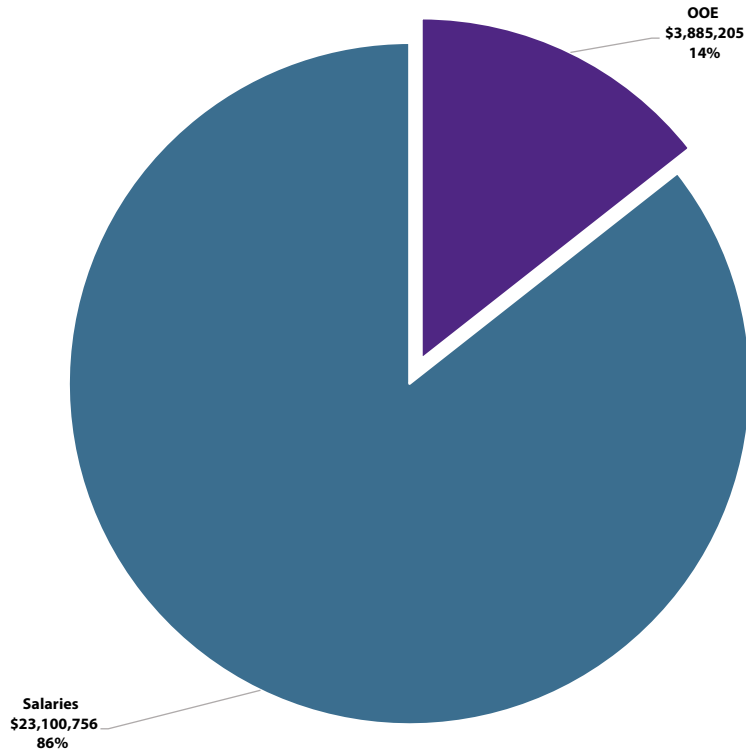
Research Expenditures by Source



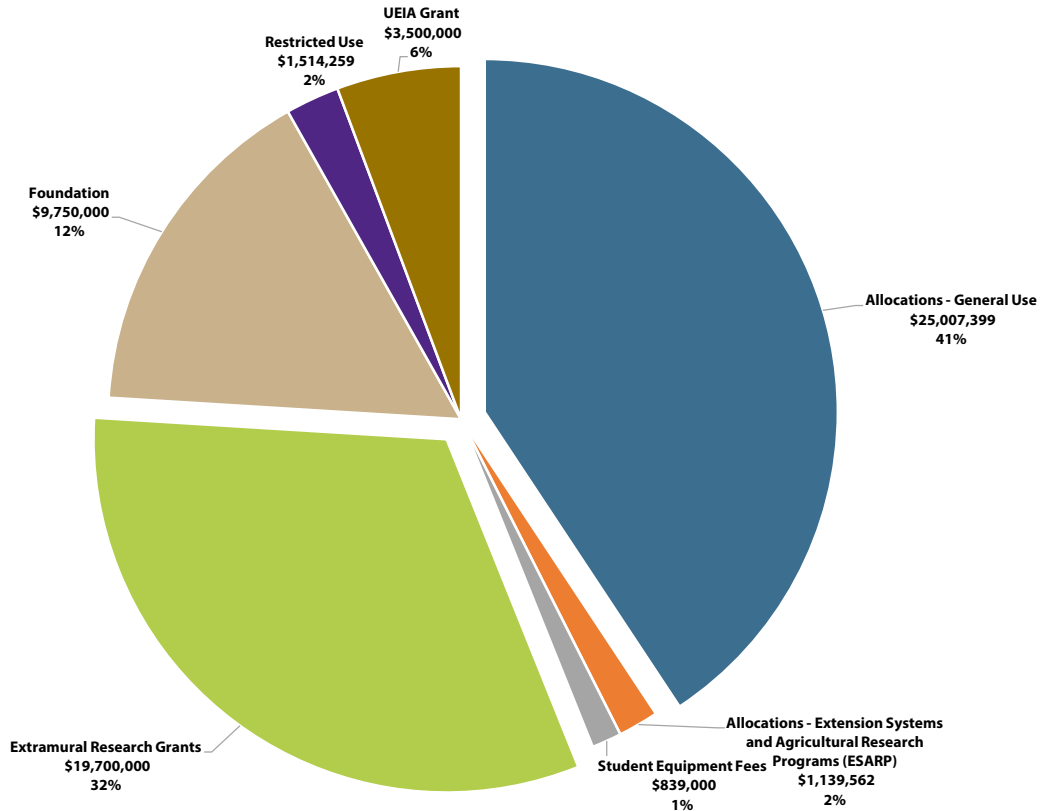
Carl R. Ice College of Engineering FY 2024 Allocations (\$27M)



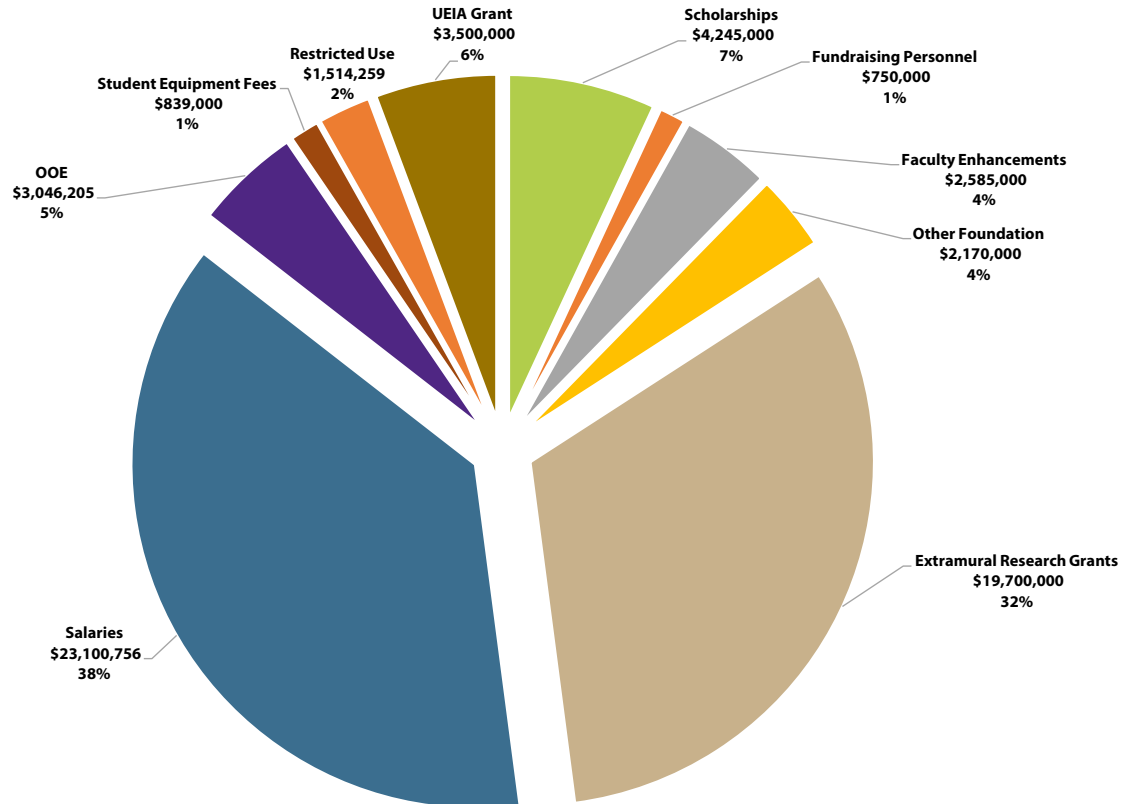
Carl R. Ice College of Engineering
FY 2024 Percentage of Allocated Budget for Salaries and Operating (\$27M)



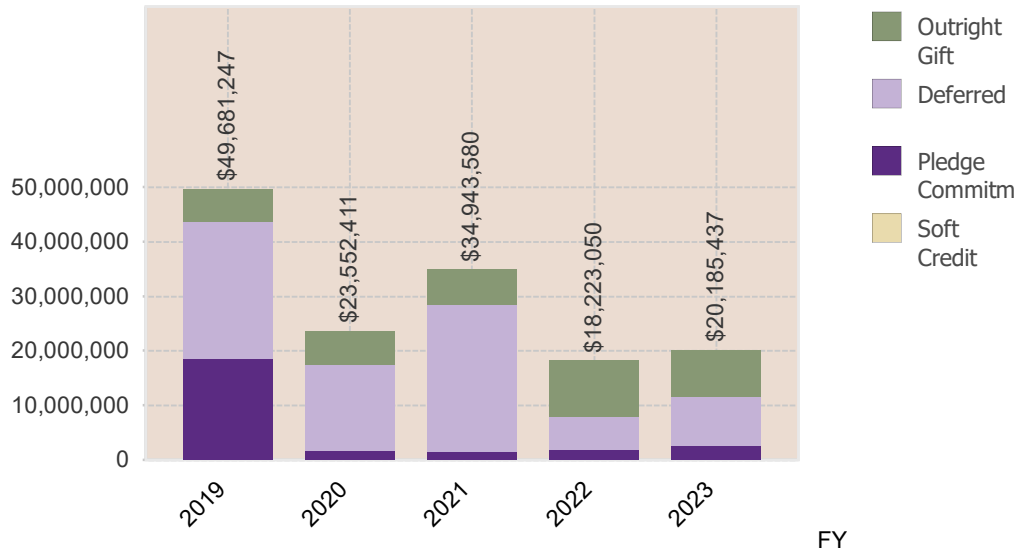
Carl R. Ice College of Engineering FY 2024 Estimated Revenue Sources (\$61.5M)



Carl R. Ice College of Engineering FY 2024 Estimated Expenditures by Category (\$61.5M)

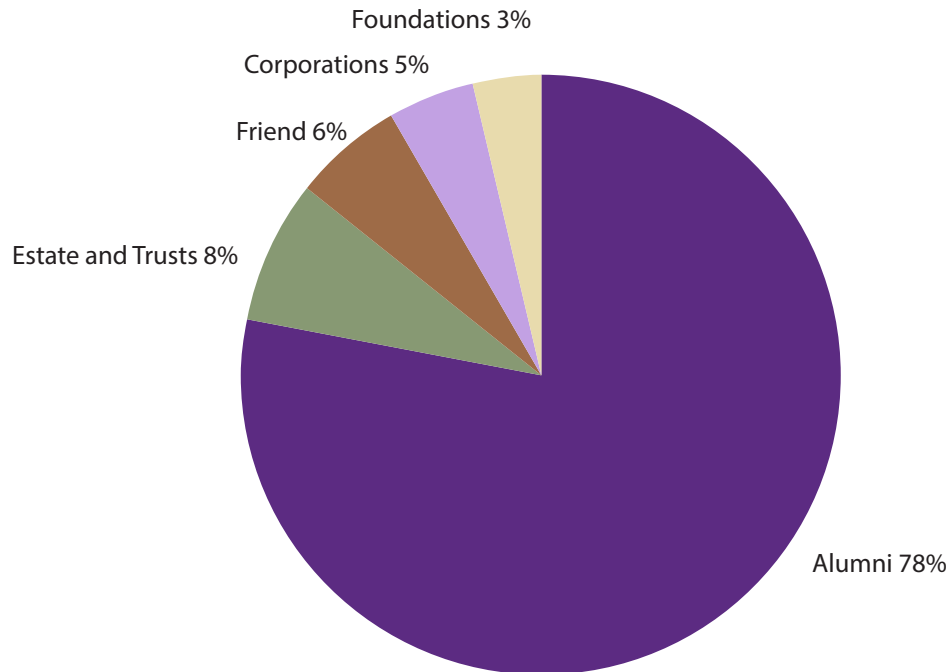


Carl R. Ice College of Engineering FY Gift Production Activity

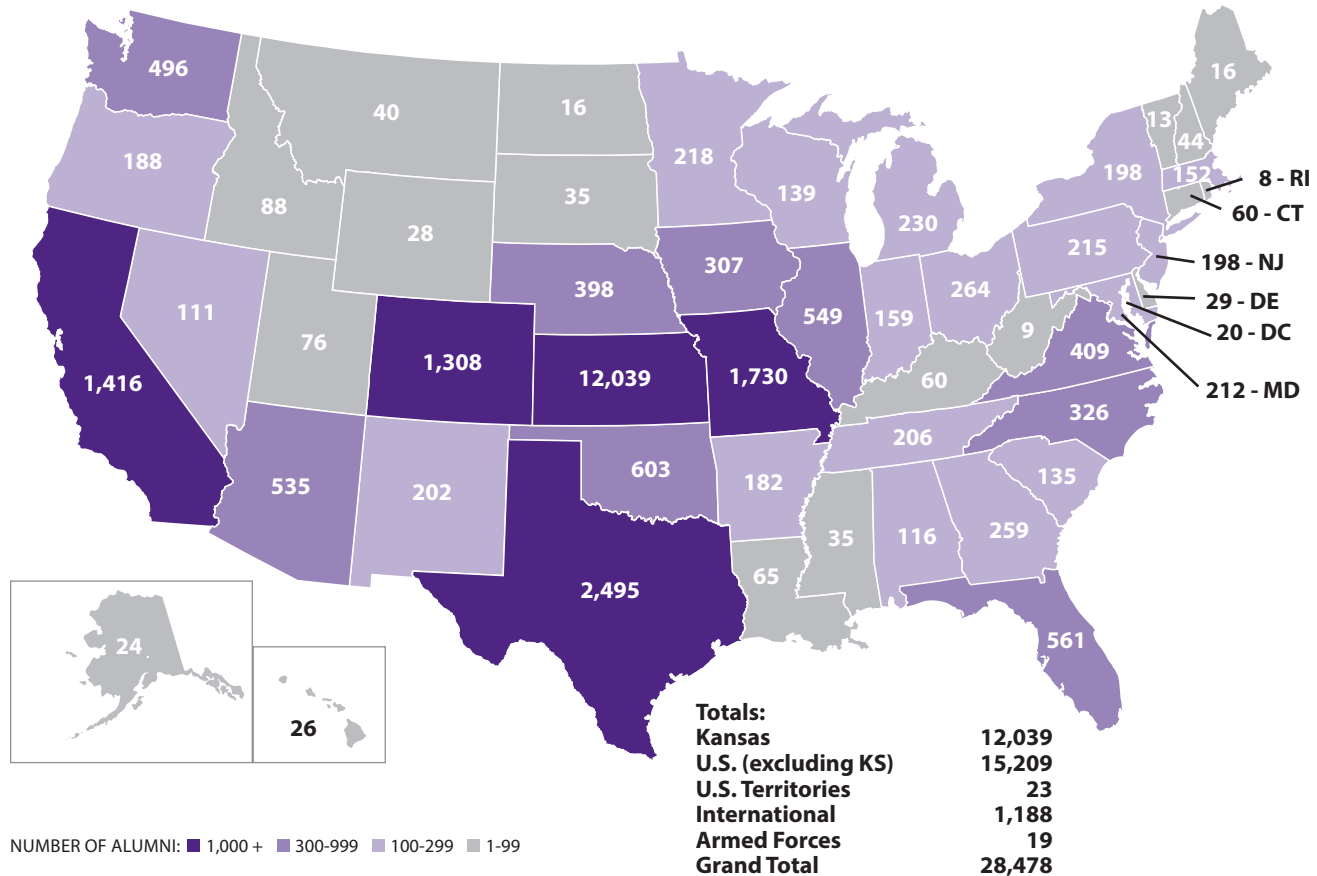


	2019	2020	2021	2022	2023
Outright	\$6,075,672	\$6,106,676	\$6,592,565	\$10,398,134	\$8,502,362
Deferred	\$25,055,475	\$15,709,485	\$26,844,145	\$5,868,333	\$9,117,518
Pledge	\$18,550,100	\$1,736,250	\$1,506,870	\$1,956,583	\$2,565,558

Carl R. Ice College of Engineering Donors by Category



Engineering Living Alumni



Source: Alumni Association

Engineering Living Alumni by Country

Country	Total	Country	Total	Country	Total	Country	Total
Afghanistan	5	Egypt	17	Kuwait	67	Slovenia	1
Argentina	2	England - see UK		Lebanon	6	South Africa	7
Australia	11	Ethiopia	5	Lesotho	1	South Korea - see Korea	
Austria	2	France	16	Libyan Arab Jamahiriya	3	Spain	7
Bahamas	1	Germany	16	Malaysia	37	Sri Lanka	4
Bahrain	3	Ghana	2	Mali	2	Sudan	2
Bangladesh	3	Greece	3	Mexico	8	Swaziland	1
Belgium	4	Guatemala	1	Mongolia	1	Sweden	1
Bolivia	6	Guinea	1	Nepal	1	Switzerland	8
Bosnia-Herzegovina	1	Haiti	1	Netherlands	1	Syrian Arab Republic	1
Botswana	2	Honduras	2	New Zealand	2	Taiwan	68
Brazil	5	Hong Kong	10	Nicaragua	3	Tanzania, United Republic of	4
Brunei Darussalam	1	Iceland	1	Nigeria	23	Thailand	22
Canada	58	India	135	Norway	2	Tunisia	1
China	141	Indonesia	11	Pakistan	22	Turkey	13
Columbia	9	Iran, Islamic Republic of	24	Panama	8	Turks and Caicos Islands	1
Costa Rica	29	Iraq	8	Paraguay	23	Ukraine	1
Cote D'Ivoire	1	Ireland	3	Peru	2	United Arab Emirates	12
Croatia	1	Israel	2	Philippines	6	United Kingdom	23
Cyprus	6	Japan	17	Qatar	7	United States and Territories	27, 290
Czech Republic	5	Jordan	17	Russian Federation	1	Venezuela	8
Denmark	1	Kenya	1	Saudi Arabia	125	Vietnam	2
Ecuador	2	Korea, Republic of	38	Singapore	14	Yemen	6
						Total Engineering	28,478

Source: Alumni Association

Total Alumni by Department

Department	Number	Percent
Architectural Engineering and Construction Science	5,122	13.2%
Biological and Agricultural Engineering	1,669	4.3%
Chemical Engineering	2,669	6.9%
Civil Engineering	4,386	11.3%
Computer Science	3,935	10.1%
Electrical and Computer Engineering	7,744	20.0%
Engineering	266	0.7%
Engineering Technology	960	2.5%
Industrial and Manufacturing Systems Engineering	3,460	8.9%
Mechanical and Nuclear Engineering	8,441	21.8%
Other	107	0.3%
Total	38,759	100%

Source: Alumni Association

