



THE DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION

ANNUAL METRICS

Academic Years
2014-2018[‡]



[‡]AY 2019 data included where available.



THE DURHAM SCHOOL
OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION



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The Durham School Mission

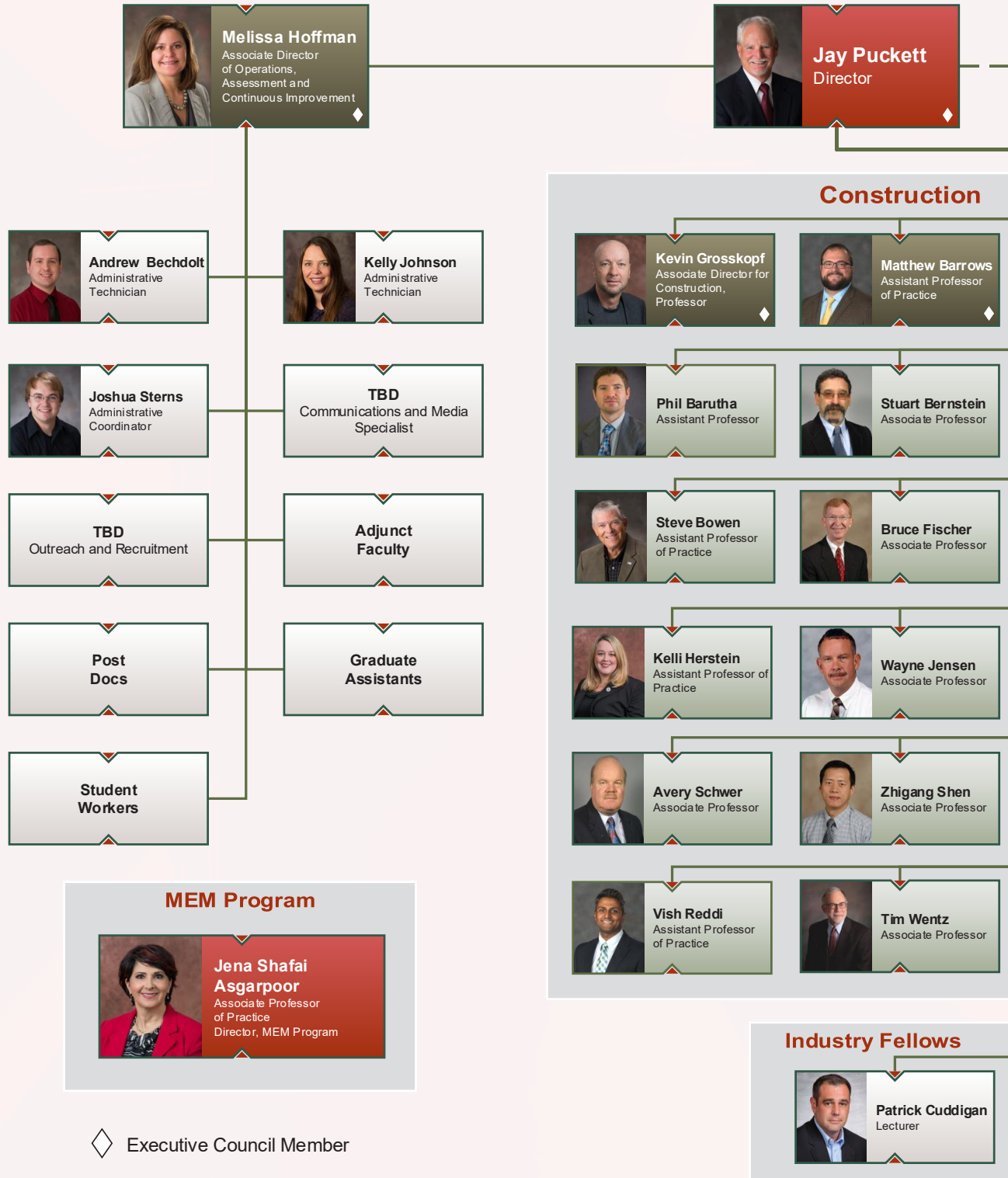
The Charles W. Durham School of Architectural Engineering and Construction was formed by action of the Board of Regents on December 13, 2003. In the program statement to the Regents, it was indicated that the “objective in consolidating these three closely allied programs is a strong, dynamic unit that will allow the College of Engineering to become a national leader in this field.” It was also stated that the new school will establish national standards of excellence by incorporating technologically advanced education and research programs in collaboration with private sector industry leaders.

The mission of The Charles W. Durham School of Architectural Engineering and Construction is to provide the highest quality education for design and building professionals and to promote and advance industrial innovation and standards through research and technology utilization and transfer.





2018-2019 Organizational Chart





N THE DURHAM SCHOOL
OF ARCHITECTURAL ENGINEERING AND CONSTRUCTION

Learn Today | Build Tomorrow

Durham School
Advisory Board


Architectural Engineering
Industry Advisory
Committee (AEIAC)


Construction Industry
Advisory Committee
(CIAC)

Architectural Engineering

 **Brandon Kreiling**
Assistant Professor
of Practice


 **Ece Erdogmus**
Associate Director for
Architectural Engineering,
Professor
Structures

 **Clarence Waters**
Industrial Liaison,
Professor
Electrical & Lighting

 **Moe Alahmad**
Associate Professor
Electrical & Lighting

 **John Bonsell**
Associate Professor

 **Fadi Alsalem**
Assistant Professor
Mechanical Systems

 **Michelle Eble-Hankins**
Assistant Professor
of Practice
Electrical & Lighting

 **Jason Konstantzos**
Assistant Professor
Mechanical Systems

 **James Goedert**
Professor

 **Josephine Lau**
Associate Professor
Mechanical Systems

 **Haorong Li**
Associate Professor
Mechanical Systems

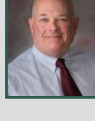
 **Erica Ryherd**
Associate Professor
Acoustics


 **George Morcous**
Professor


 **Dale Tiller**
Associate Professor
Electrical & Lighting

 **Lily Wang**
Professor
Acoustics


 **David Yuill**
Assistant Professor
Mechanical Systems


 **Terry Stentz**
Associate Professor

 **Yuebin Yu**
Assistant Professor
Mechanical Systems

 **Todd Feldman**
Lecturer

 **Rodrigo Manriquez**
Lecturer

 **Lauren Ronsse**
Lecturer

 **Todd Shackelford**
Lecturer





Degrees Offered

	Bachelor of Science (B.S.)	Master of Architectural Engineering (M.A.E.)	Master of Science (M.S.)	Doctoral (Ph.D.)
Architectural Engineering <i>(Omaha Only)</i>	X	X	X	X
Construction Management <i>(Omaha & Lincoln)</i>	X			
Construction Engineering <i>(Omaha & Lincoln)</i>	X			
Construction Engineering and Management - CEMT <i>(Omaha & Lincoln)</i>			X	X

Journal Publications/Conference Proceedings

	2013	2014	2015	2016	2017
Journal Papers	30	44	40	41	30
Conference Papers	34	32	41	34	33
Total	64	76	81	75	63

All journal publications and conference proceedings are peer-reviewed.

Source: Faculty Profiles and Department Records. Data may not represent all publications and proceedings.

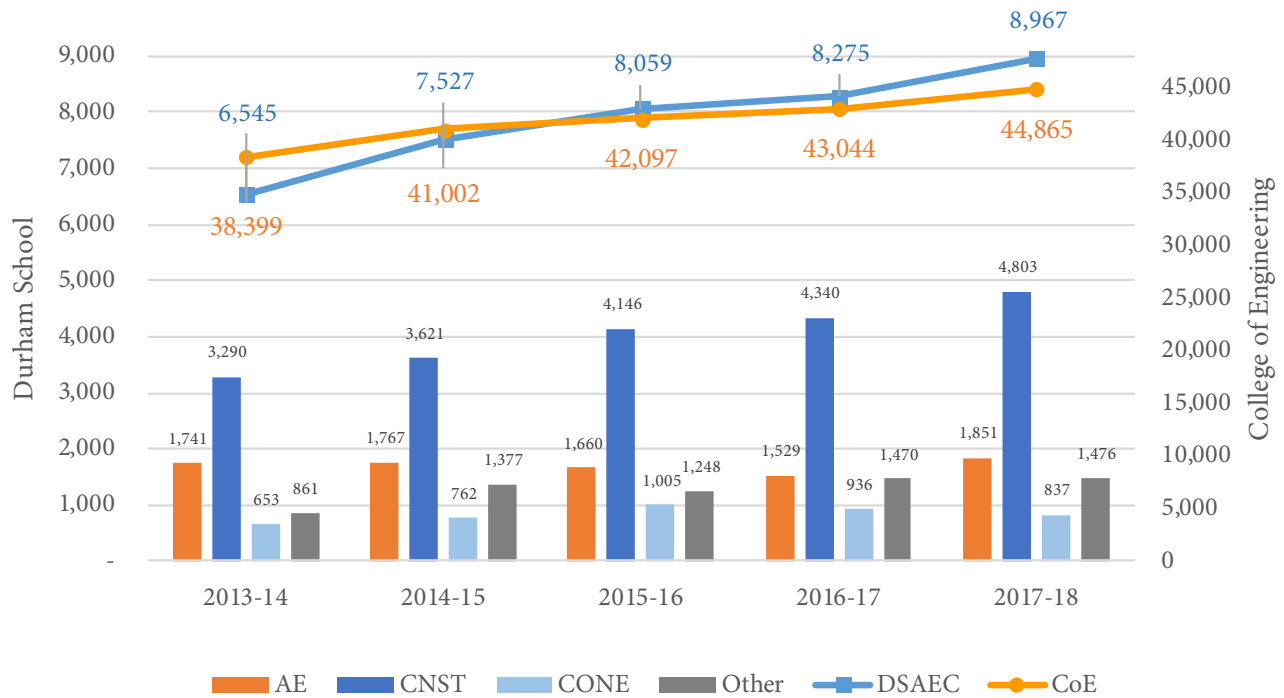




Credit Hours Taught

	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18
DSAEC					
Architectural Engineering	1,741	1,767	1,660	1,529	1,851
Construction Management	3,290	3,621	4,146	4,340	4,803
Construction Engineering	653	762	1,005	936	837
Other	861	1,377	1,248	1,470	1,476
Total	6,545	7,527	8,059	8,275	8,967
College of Engineering	38,399	41,002	42,097	43,044	44,865

Source: Institutional Effectiveness and Analytics; College of Engineering

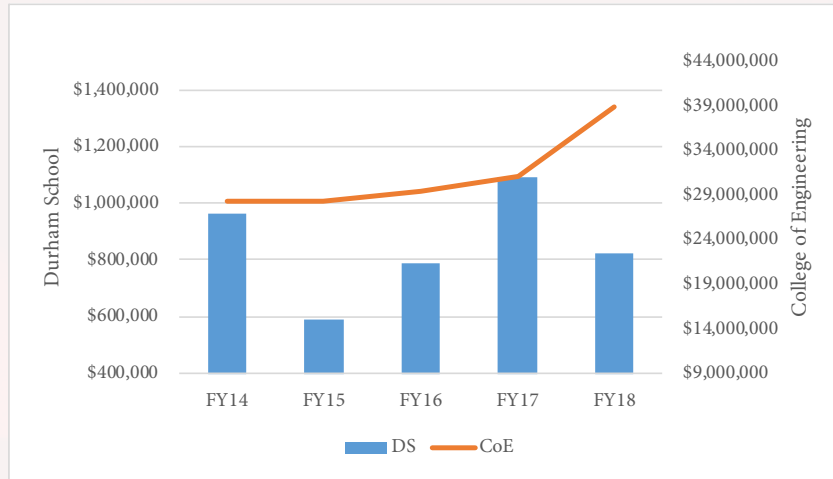




Research Expenditures

	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
DSAEC	\$965,275	\$587,426	\$789,091	\$1,092,414	\$825,973
College of Engineering	\$28,257,499	\$28,391,721	\$29,397,052	\$31,166,595	\$38,974,739

Source: College of Engineering, data represents Fiscal Year (FY) July 1 - June 30.

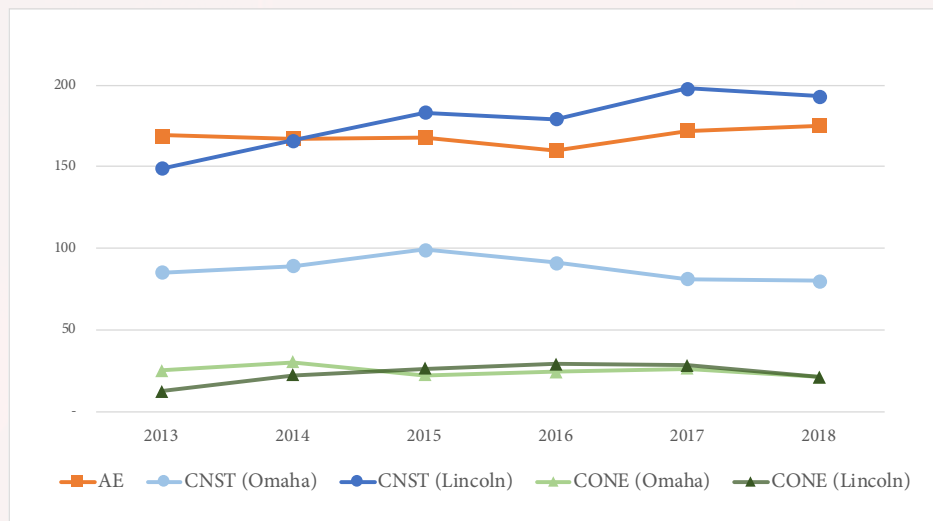
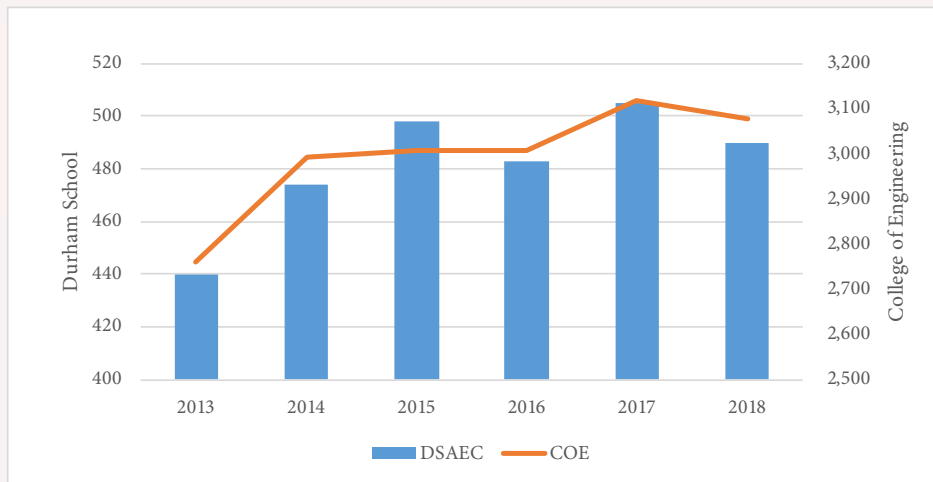




Undergraduate Enrollment

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering	169	167	168	160	172	175
Construction Management (Omaha)	85	89	99	91	81	80
Construction Management (Lincoln)	149	166	183	179	198	193
Construction Engineering (Omaha)	25	30	22	24	26	21
Construction Engineering (Lincoln)	12	22	26	29	28	21
DSAEC	440	474	498	483	505	490
College of Engineering	2,759	2,993	3,008	3,066	3,117	3,077

Source: Institutional Effectiveness and Analytics

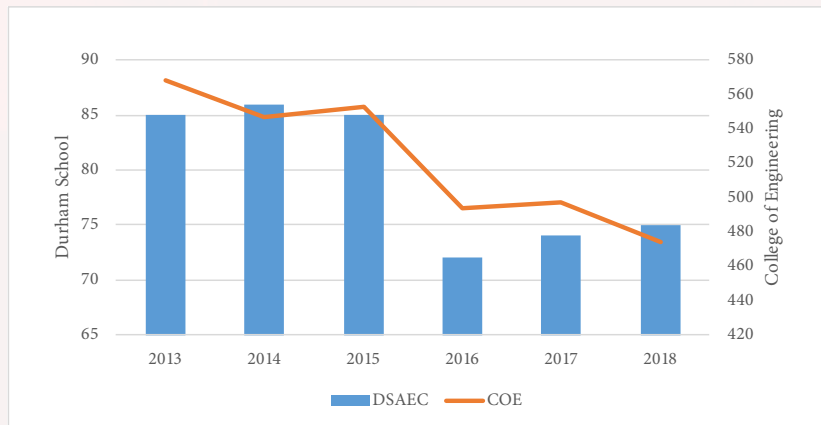




Graduate Enrollment

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering - M.A.E.	42	38	33	24	28	36
Architectural Engineering - M.S.	5	5	5	7	3	9
Architectural Engineering - Ph.D.	19	16	17	18	19	13
Construction - M.S.	6	4	0	1		
Construction - M.S. (CEMT)			2	1	6	8
Construction - Ph.D.	19	21	17	12	10	6
Construction - Ph.D. (CEMT)			7	9	8	3
DSAEC	85	86	85	72	74	75
College of Engineering	568	547	553	494	497	474

Source: Institutional Effectiveness and Analytics; College of Engineering





Ethnicity Undergraduate

DSAEC	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
African American/Black	7	6	11	14	13	7
Asian	4	3	5	4	7	14
Hispanic	19	22	21	23	29	38
Native American	0	1	1	0	0	0
Other (inc. Caucasian)	411	442	460	442	456	490

College of Engineering	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
African American/Black	59	69	78	78	71	55
Asian	75	76	96	92	103	108
Hispanic	101	114	125	143	168	210
Native American	3	3	3	2	4	5
Other (inc. Caucasian)	2,521	2,731	2,706	2,751	2,771	3,077

Source: Institutional Effectiveness and Analytics; College of Engineering

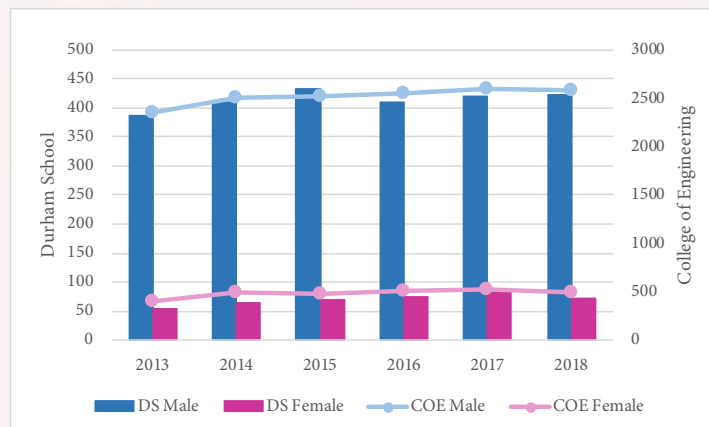




Gender Undergraduate

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering						
Male	126	121	117	107	115	129
Female	43	46	51	53	57	53
Construction Management (Omaha)						
Male	81	81	91	82	69	72
Female	5	8	8	9	12	8
Construction Management (Lincoln)						
Male	145	160	177	173	189	184
Female	4	6	6	6	9	9
Construction Engineering (Omaha)						
Male	23	27	24	21	21	20
Female	2	3	2	3	5	1
Construction Engineering (Lincoln)						
Male	12	21	24	26	26	19
Female	0	1	2	3	2	2
DSAEC						
Male	387	410	433	409	420	424
Female	54	64	69	74	85	73
College of Engineering						
Male	2,354	2,507	2,529	2,554	2,601	2,579
Female	405	486	479	512	516	498

Source: Institutional Effectiveness and Analytics; College of Engineering



National Standardized Exams

Fundamentals of Engineering (FE) Exam – Passing Percentage

	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
Architectural Engineering	N/D	N/D	N/D	N/D	100%
National Average (ABET)	N/D	N/D	N/D	N/D	100%
Construction Engineering	50%	N/A	57%	100%	N/A
National Average (ABET)	N/D	N/A	76%	62%	N/A

American Institute of Constructors (AIC) Level 1 Exam – Associate Constructor - Passing Percentage

	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
Construction Management	56%	65%	90%	77%	79%
National Average	51%	67%	70%	79%	59%

Source: Official FE and AIC exam reports

N/D -- Official data unavailable

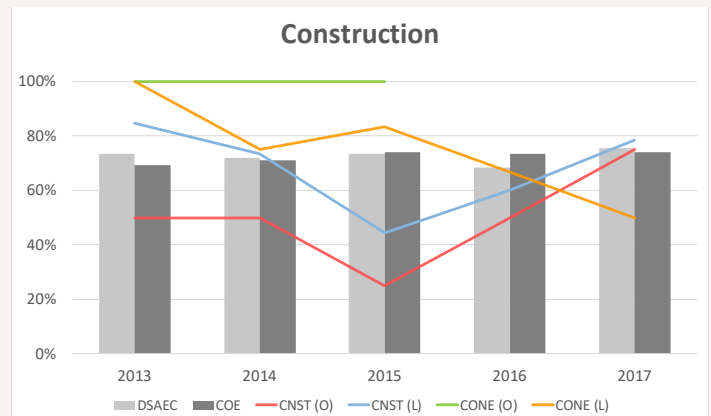
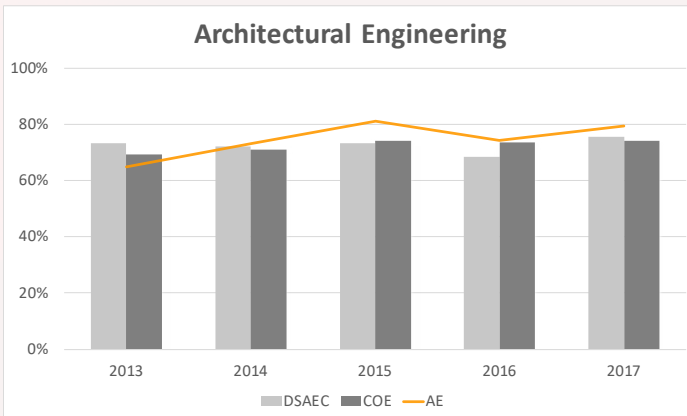
N/A -- No exams taken



Retention Rates

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017
Architectural Engineering	64.7%	73.2%	81.1%	74.2%	79.5%
Construction Management (Omaha)	50.0%	50.0%	25.0%	50.0%	75.0%
Construction Management (Lincoln)	84.6%	73.3%	44.4%	60.0%	78.6%
Construction Engineering (Omaha)	100%	100%	100%	N/A	50.0%
Construction Engineering (Lincoln)	100%	75.0%	83.3%	66.7%	50.0%
DSAEC	73.3%	72.0%	73.3%	68.5%	75.4%
College of Engineering	69.3%	71.0%	74.0%	73.6%	74.0%

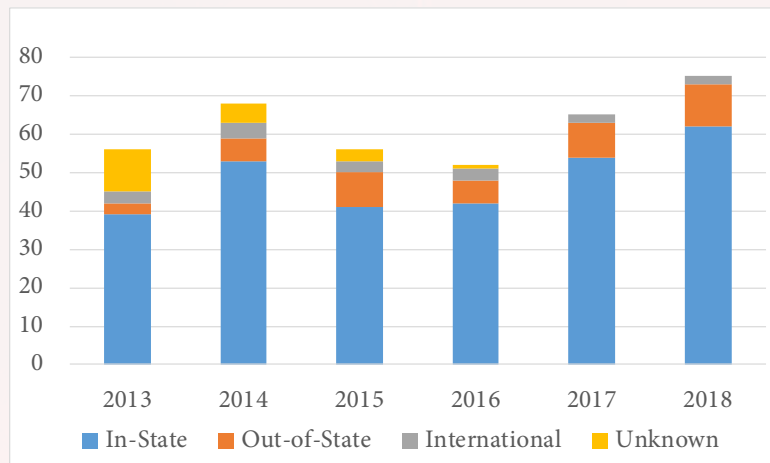
Source: College of Engineering; based on first-time, first-year undergraduate students who continue to the next year.





In-State / Out-of-State Students First-Time Freshman

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering						
In-State	20	30	27	26	37	40
Out-of-State	2	4	5	2	1	5
International	2	3	2	2	1	1
Unknown/No Data	10	5	3	1	0	0
Construction Management						
In-State	12	14	5	12	13	18
Out-of-State	1	1	4	2	5	4
International	0	0	0	1	0	1
Unknown/No Data	0	0	0	0	0	0
Construction Engineering						
In-State	7	9	9	4	4	4
Out-of-State	0	1	0	2	3	2
International	1	1	1	0	1	0
Unknown/No Data	1	0	0	0	0	0
Combined						
In-State	39	53	41	42	54	62
Out-of-State	3	6	9	6	9	11
International	3	4	3	3	2	2
Unknown/No Data	11	5	3	1	0	0



Source: College of Engineering;
based on first-time, first-year
undergraduate students





ACT Scores First-Time Freshman

	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018
Architectural Engineering	30.0	28.4	28.9	27.8	29.1	28.5
Construction Management	26.1	26.5	26.0	24.9	25.1	25.6
Construction Engineering	27.4	27.4	27.1	27.6	27.1	27.0
DSAEC	28.5	27.6	28.1	26.8	27.8	27.5
University of Nebraska - Lincoln	25.3	25.4	25.2	25.2	25.3	25.4

Source: Institutional Effectiveness and Analytic; College of Engineering





Undergraduate Scholarships Awarded by The Durham School

	AY 2016-17		AY 2017-18		AY 2018-19	
	Total Scholarships	Total \$ Awarded	Total Scholarships	Total \$ Awarded	Total Scholarships	Total \$ Awarded
Architectural Engineering	27	\$81,760	32	\$133,750	37	\$170,500
Construction (Omaha)	27	\$74,760	15	\$38,600	12	\$18,800
Construction (Lincoln)	45	\$86,735	44	\$91,300	51	\$92,050
Total	99	\$243,255	91	\$263,650	100	\$281,350

Source: Durham School scholarship records



Student Competitions

Academic Years 2014-2018

- 2015 Architectural Engineering Institute Student Design Competition**
 1st Place Electrical
 Runner-up Mechanical
 Finalist Structures, Integration
- 2015 ASHRAE Student Design Competition – International**
 1st Place System Selection, Design Calculations
 3rd Place Applied Engineering Challenge Team
**First school ever to gain top-three finishes in three categories*
- 2015 Mechanical Contractors Association of America (MCAA)**
 1st Place Student Chapter Competition
- 2015 National Council of Examiners of Engineering and Surveying (NCEES)**
Engineering Award for Connecting Professional Practice and Education
 Prize - \$7500
- 2016 Architectural Engineering Institute Student Design Competition**
 1st Place Electrical
 Runner-up Mechanical, Integration
 Finalist Structures
- 2016 Mechanical Contractors Association of America (MCAA)**
 Final Four Student Chapter Competition
- 2016 National Council of Examiners of Engineering and Surveying (NCEES)**
Engineering Award for Connecting Professional Practice and Education
 Grand Prize - \$25,000
- 2017 Architectural Engineering Institute Student Design Competition**
 1st Place Electrical (Team 11)
 2nd Place Integration, Structures, Mechanical, Electrical (Team 13),
 Construction Management
 Innovation Resiliency & Security, High Performance & WELL Buildings
- 2017 ASC Region 4 Competition – Nebraska City, NE**
 1st Place Heavy Highway Category
- 2018 ASC National Competition – Reno Nevada**
 Honorable Mention IPD Category
- 2018 Architectural Engineering Institute Student Design Competition**
 2nd Place Structural, Mechanical
- 2018 National Council of Examiners of Engineering and Surveying (NCEES)**
Engineering Award for Connecting Professional Practice and Education
 Prize - \$10,000



Illuminating Engineering Society (IES) Howard Brandston Student Lighting Design Education Grant
 Durham School students received top honors in years: 2010, 2011, 2013, 2014, 2015, 2016, 2018
 Additionally, students received honorable mention awards in years: 2011, 2014, 2016

Durham School Career Fair Statistics

Day 1 - Internship Presentations	2014	2015	2016	2017	2018
Student Presentations	15	23	27	29	40
Attendance	152	113	204	208	238
Day 2 - Career Fair	2014	2015	2016	2017	2018
Registered Employers	60	76	81	81	100
States Represented	11	18	15	16	17
Student Visitors	302	277	267	318	401
Day 3 - Next-Day Interviews	2014	2015	2016	2017	2018
Participating Employers	13	19	27	31	29
Next-Day Interviews	120	200	230	249	260

Source: College of Engineering Career Services



Degrees Conferred

Undergraduate Degrees	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18
Architectural Engineering	28	26	23	26	35
Construction Management (Omaha)	23	21	27	21	18
Construction Management (Lincoln)	34	28	45	26	60
Construction Engineering (Omaha)	3	7	4	5	3
Construction Engineering (Lincoln)	1	2	2	2	6
Construction Engineering Technology*	1				
DSAEC	90	84	101	80	122
College of Engineering	533	512	531	577	612

Graduate Degrees	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18
Architectural Engineering - M.A.E.	21	26	29	17	24
Architectural Engineering - M.S.	3	2	1	9	3
Architectural Engineering - Ph.D.	3	4	5	2	3
Construction - M.S.	3	1			
Construction - M.S. (CEMT)	0	3	6	5	4
Construction - Ph.D.	4	3	4	1	3
Construction - Ph.D. (CEMT)				2	0
DSAEC	34	39	45	24	37
College of Engineering	165	192	179	178	181

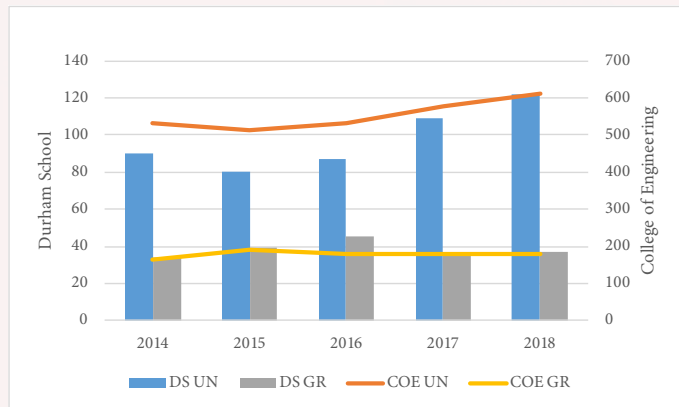
Source: College of Engineering

Alumni To-Date

Architectural Engineering	520+
Construction	2980+

Source: Durham School Alumni databases

*The Construction Engineering Technology program began its phase-out in Fall 2006 due to the transition to Construction Engineering and Construction Management on the Omaha Campus in 2005.



Construction Student Placement

	AY 2012-13	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17
Undergraduate					
Employed	79.3%	84.8%	86.1%	69.4%	83.1%
Additional Education	3.1%	N/A	8.3%	0.9%	3.1%
Average Starting Salary (Undergraduate)					
Construction Management	\$50,247	\$52,288	\$51,281	\$54,375	\$54,387
Construction Engineering	\$68,385	N/A	\$49,166	\$58,250	\$56,100

Source: College of Engineering Career Services

Academic Appointments – Graduate Students (Ph.D.)

2013	Endong Wang	University of Tennessee Chattanooga
2014	John Killingsworth	Colorado State University
2014	Kelli Herstein	University of Nebraska-Lincoln
2015	Krishna Kisi	Missouri Western State University
2015	Nirajan Mani	Fitchburg State University
2015	Seyed Ehsan Mousavi Rizi	Clemson University
2016	Saeed Rokooei	University of Mississippi
2017	Mohamed Amar	University of Nebraska-Lincoln
2018	Hamed Nabizadeh Rafsanjani	University of Georgia
2018	Kanghyeok Yang	Texas A&M



Industry Placement – Graduate Students (Ph.D.)

2012	Eliya Henin	OPPD
2013	Mehdi Mohseni	Taliaferro & Browne, Inc.
2013	Musa Alawneh	e-Construct, Inc.
2014	Afshin Hatami	Bentley Software
2014	Mohammad Lashgari	GameChange Racking
2014	Shaddi Assad	DLR Group
2016	Ayoub Hazrati	Vanguard, Philidelphia
2016	Bradley Cory	Weatherproof Roofing & Exteriors
2016	Micheal Asaad	DLR Group
2017	Raed Tawadrous	e-Construct, Inc.
2017	Sherif Gawdat	Dar Al Handasah



Source: Durham School Construction Alumni Database

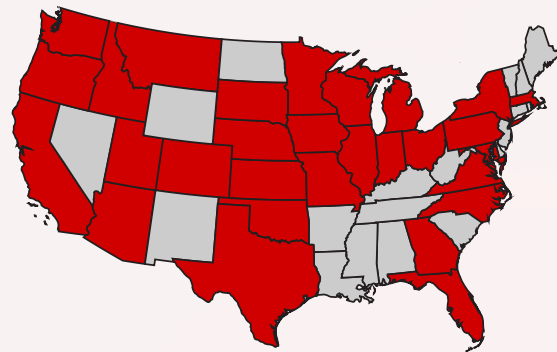
Architectural Engineering Student Placement

Master of Architectural Engineering (M.A.E.)	AY 2013-14	AY 2014-15	AY 2015-16	AY 2016-17	AY 2017-18
Alumni Records/Total Graduates	20/21	26/26	27/29	17/17	20/22
Employed in AE Industry ¹	95%	100%	100%	100%	100%
Employed in Non-AE Industry ¹	5%	0%	0%	0%	0%
Additional Education ¹	0%	0%	0%	0%	0%
Average Starting Salary [‡]	\$53,464	\$56,734	\$59,917	\$58,818	\$59,970

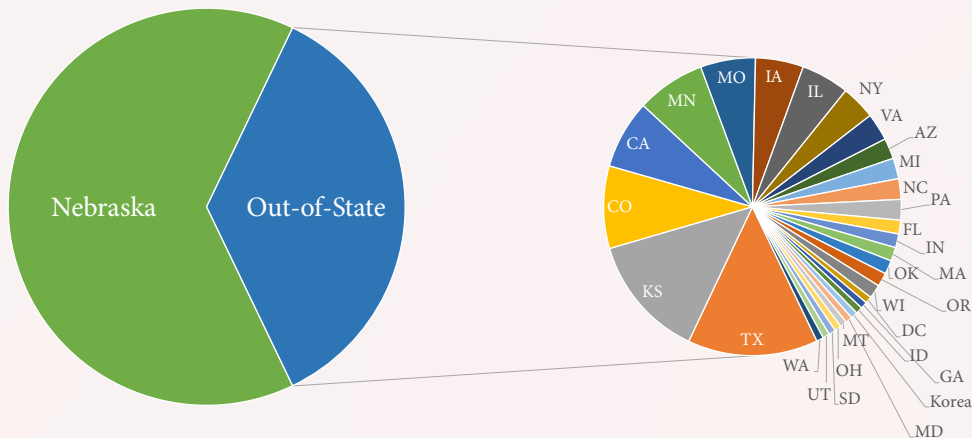
M.A.E. Sample Employer List

- | | |
|--------------------------------|-----------------------------------|
| Affiliated Engineers, Inc. | HGA Architects & Engineers |
| Alvine Engineering | JEI Structural Engineering |
| Bes-Tech, Inc. | Leo A Daly |
| Brack & Associates | Morrissey Engineering |
| BSE Structural Engineers, LLC | Olsson Associates |
| Burns & McDonnell | Omaha Public Power District |
| Buro Happold Engineering | Schemmer Associates |
| DLR Group | Schmidt & Stacy |
| Ebmeier Engineering | Schnackel Engineers |
| Engineering Technologies, Inc. | SmithGroup JJR |
| Ezenics Inc. | Specialized Engineering Solutions |
| Farris Engineering | Thompson, Dreesen & Dorner |
| HDR Architecture | Threshold Acoustics |
| HDR Engineering | U.S. Army Corps of Engineers |
| Henderson Engineers, Inc. | Wilson & Company |

M.A.E. Employment First Destinations



Nebraska AE Graduate Location



Source: Durham School Architectural Engineering Alumni Database

1) Of known records

‡ AY15, AY16, AY17 - Source: College of Engineering Career Services

AY14, AY18 - Source: Durham School Architectural Engineering Alumni Database; Career Services data unavailable



Architectural Engineering Student Placement

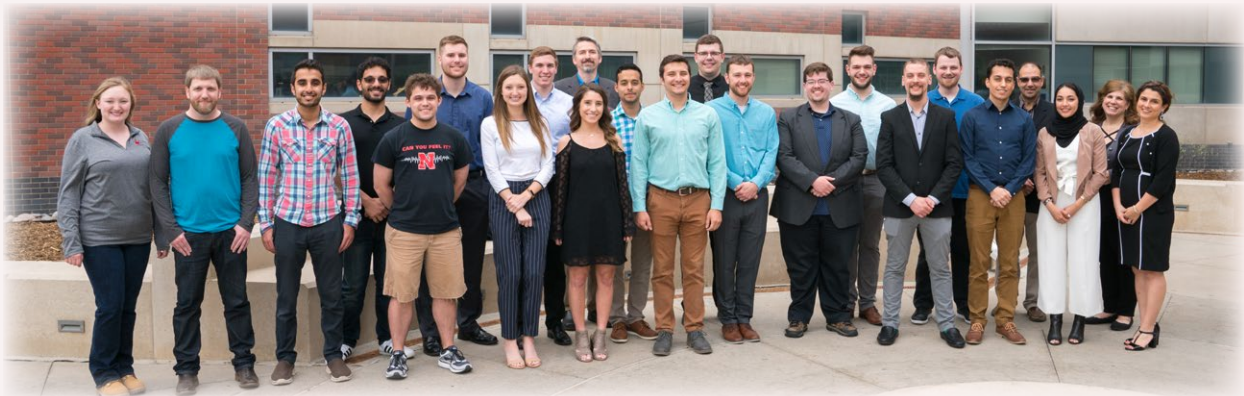
Academic Appointments - Graduate Students (Ph.D.)

2013	Keke Zheng	Nanchang University
2013	Xiaoyu Liu	University of Nebraska-Lincoln
2014	Catherine Armwood	Tennessee State University
2014	Zhao Peng	University of Wyoming-Madison
2016	Eric Garcia	North Dakota State University
2016	Joonhee Lee	Concordia University

Industry Placement - Graduate Students (Ph.D.)

2012	Bei Zhang	Bes-Tech, Inc.
2012	Yunhua Li	Bes-Tech, Inc.
2013	Xingbin Lin	Nexant Inc
2014	Chunxiao Su	Bes-Tech, Inc.
2015	Hyun Hong	Threshold Acoustics
2015	Yulia Tyukhova	Acuity Brands Lighting
2016	Ariel Kousgaard	Wiss, Janney, Elstner Associates, Inc.
2016	Matthew Blevins	U.S. Army Engineer Research and Development Center
2017	ShiHan Deng	Tenecent, China

Source: Durham School Architectural Engineering Alumni Database





Advisory Boards

Durham School Advisory Board

Doug Alvine	Alvine and Associates, Inc.	Mary D. Lundgren	
Mike Ayars	Ayars & Ayars, Inc.	Nancy Melby	Leo A Daly
Lynne D. Boyer		Mike Moran	HDR, Inc.
Guenther Dziuvenis	AVI Systems	Ken West	DLR Group
Doug Glaser	Kiewit Infrastructure Group, Inc.		

Architectural Engineering Industry Advisory Committee (AEIAC)

Guenther Dziuvenis	AVI Systems	Rodd Merchant	JE Dunn Construction
Bernie Gehrki	HDR, Inc. (retired)	Mike Moran	HDR, Inc.
Stephanie Guy	Alvine and Associates, Inc.	George Morrissey	Morrissey Engineering
Johanna Harris	Hammel, Green and Abrahamson,	Andrea Reynolds	SmithGroup JJR
Todd Mack	DLR Group	Mark Sarkisian	Skidmore, Owings & Merrill, LLP
Nancy Melby	Leo A Daly	Steve Yanke	Affiliated Engineers, Inc.

Construction Industry Advisory Committee (CIAC)

Mark Adamson	Adolfson & Peterson Construction	Mike Naccarato	SGH/Redglaze Holding, Inc.
Mark Arnold	GH Phipps	Mark Nienhueser	Tetrad Property Group
Marsha Babcock	MCA Omaha	Travis Nobel	Mortenson Construction
Ryan Burbach	New Generation Construction	Mike Ostland	Kiewit
Brent Burger	Black & Veatch Construction	Brian Penner	Hensel Phelps
Bryan Bush	City Glass Company	Jean Petsch	AGC Nebraska Building
Pat Cuddigan	New Street Properties	Kama Pfister	HDR Architecture, Inc.
Joe Delgado	TCW Construction, Inc.	Gabe Ronk	MMC Contractors
Paul Dudzinski	Mortenson/McCarthy Joint Venture	Erin Royal	Turner Construction
Jose Figueroa	Interstates	Ryan Sawall	McCarthy
B.J. Gehrki	Kiewit	Matt Schendt	Hausmann Construction
Doug Glaser	Kiewit	Jeff Schomberg	Johnson Controls, Inc.
Chris Grojean	Hawkins	Matt Schulte	Whiting-Turner
Chris Harnly	Lund-Ross Constructors	Jason Tagge	Miller Electric
Renee Jacobs	Johnson Controls, Inc.	Ryan Watzke	JE Dunn
Greg Key	Lueder Construction Co.	Terry White	Boyd Jones
Mostafa Khattab	Colorado State University	Blaine Wilcoxson	Waldinger Corporation
Chris Kingery	Kingery Construction Company	Todd Wimmer	Union Pacific
Matt Ladd	Brinkmann Construction	Robert Wittler	Ayars & Ayars, Inc.
Mark Menousek	JE Dunn	Don Wrieth	Kiewit Building Group (Retired)

