



America's Brightest **ORANGE**

Oklahoma State University

University Assessment and Testing

2021 OSU Alumni Survey

Survey Report – Architectural Engineering

The OSU Alumni Survey is a survey designed to collect information about OSU graduated students. More specifically, it is designed to collect information on their career, educational achievements, and their experience with OSU. This information will be used to improve academic programs and student experiences at OSU for generations to come. This survey targeted alumni of undergraduate and graduate programs who received their degree in 2015 and/or 2019. The survey was administered online by OSU-University Assessment and Testing (UAT) in March 2021 through May 2021. Departments may request additional information by contacting UAT (assessment@okstate.edu).

Survey Questions

Respondents were asked 35 items; 26 were institutional level items and 9 were program-specific questions developed by College of Engineering, Architecture and Technology. Institutional level items were given to all OSU alumni and the items were featured on categories; continuing education, well-being and community, demographic, satisfaction, career reflection, and current job or career.

Target Population / Response Rate – Architectural Engineering

	OSU Degree Received:		
	<u>2015</u>	<u>2019</u>	<u>Total</u>
Number of graduates (<i>n</i>)	11	12	23
Number of survey respondents (<i>n</i>)	6	6	12
Response rate	54.6	50.0	52.3

1. Since graduating from OSU, how would you describe your activity? (This item was "mark all that apply")	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Not engaged in paid employment, nor enrolled in graduate or professional school	0	0.0	0	0.0
Enrolled in graduate or professional school	1	14.3	0	0.0
Employed full-time or part-time	6	85.7	4	66.7
Both employed (other than graduate assistant) and continuing my education	0	0.0	2	33.3
Self-employed	0	0.0	0	0.0

2. Whether or not you are currently employed, in what area is your principal occupation?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Engineering	4	66.7	6	100.0
Computer Science, Programming or Technology	0	0.0	0	0.0
Science, Social Science, or Mathematics	0	0.0	0	0.0
Health or Mental Health	0	0.0	0	0.0
Business or Management	0	0.0	0	0.0
Finance or Accounting	0	0.0	0	0.0
Education, Training, or Library	1	16.7	0	0.0
Legal	0	0.0	0	0.0
Writing, Journalism, or Design	0	0.0	0	0.0
Public Service, Policy, or Politics	0	0.0	0	0.0
Public Relations, Marketing, or Sales	0	0.0	0	0.0
Architecture	0	0.0	0	0.0
Art, Performing, or Athletics	0	0.0	0	0.0
Participating in a volunteer or service program	0	0.0	0	0.0
Serving in the U.S. military	0	0.0	0	0.0
Other occupational area (INSERT FIELD)	1	16.7	0	0.0



Continuing Education

Participants who indicated they were continuing their education responded to the following items.

	2015		2019	
	<i>n</i>	%	<i>n</i>	%
3. What graduate or professional degree are you pursuing or, if you completed a degree, what degree did you complete? (This item was "mark all that apply")				
Graduate Certificate	0	0.0	0	0.0
Master's	0	0.0	2	100.0
Doctoral	0	0.0	0	0.0
Medical (includes nursing, osteopathy, dental, vet, and more)	0	0.0	0	0.0
Law	0	0.0	0	0.0
Other (INSERT FIELD)	0	0.0	0	0.0
Prefer not to answer	0	0.0	0	0.0

	2015	2019
	4. What was the name of your graduate or professional school?	
Missouri University of Science and Technology	0	1
Oklahoma State University	0	1

	2015		2019	
	<i>n</i>	%	<i>n</i>	%
5. How well did your OSU program prepare you for graduate or professional education program?				
Very well	0	0.0	0	0.0
Adequately	0	0.0	2	100.0
Not very well	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Prefer not to answer	0	0.0	0	0.0



Well-being & Community

6. How connected do you feel to OSU?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very connected	2	33.3	1	16.7
Moderately connected	1	16.7	3	50.0
Somewhat connected	2	33.3	1	16.7
Not very connected	1	16.7	1	16.7

7. Are you regularly in touch with people you met at OSU? (This item was "mark all that apply")	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Yes, with my advisor(s)	0	0.0	1	16.7
Yes, with professors or staff	3	50.0	2	33.3
Yes, with members of my team, club, or sorority/fraternity	1	16.7	1	16.7
Yes, with classmates/friends I met at OSU	5	83.3	6	100.0
No	0	0.0	0	0.0

8. How much has your overall quality of life been enhanced by your Oklahoma State University experience?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Much	5	83.3	3	50.0
Somewhat	1	16.7	3	50.0
Little	0	0.0	0	0.0
None	0	0.0	0	0.0

9. In the past twelve months, how often have you participated in unpaid volunteer work?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
More than once a week	0	0.0	0	0.0
About once a week	0	0.0	0	0.0
About once a month	1	16.7	1	16.7
Every few months	0	0.0	1	16.7
Once or twice in the past year	3	50	1	16.7
Not at all	2	33.3	3	50.0



10. How would you change the emphasis OSU placed on these aspects of education and college life?

10a. Making ethical and thoughtful decisions	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	5	83.3	3	60.0
Increase somewhat	1	16.7	2	40.0
Increase a great deal	0	0.0	0	0.0
I don't know	0	0.0	0	0.0

10b. Exploring alternative values, perspectives, and beliefs from around the world	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	2	33.3	2	40.0
Increase somewhat	2	33.3	3	60.0
Increase a great deal	2	33.3	0	0.0
I don't know	0	0.0	0	0.0

10c. Improving written and oral communication skills	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	5	83.3	2	40.0
Increase somewhat	1	16.7	2	40.0
Increase a great deal	0	0.0	1	20.0
I don't know	0	0.0	0	0.0



10d. Improving ability to think critically (analytically and logically)	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	3	50.0	0	0.0
Increase somewhat	2	33.3	3	60.0
Increase a great deal	1	16.7	2	40.0
I don't know	0	0.0	0	0.0

10e. Ability to interact positively with people who are different from you	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	2	33.3	2	40.0
Increase somewhat	2	33.3	1	20.0
Increase a great deal	2	33.3	2	40.0
I don't know	0	0.0	0	0.0

10f. Developing good health habits and physical fitness	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Reduce a great deal	0	0.0	0	0.0
Reduce somewhat	0	0.0	0	0.0
Keep about the same	3	50.0	3	60.0
Increase somewhat	2	33.3	0	0.0
Increase a great deal	1	16.7	2	40.0
I don't know	0	0.0	0	0.0



Academic Satisfaction

11. Please rate your degree of satisfaction with each of the following items:

11a. The quality of teaching at OSU	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	5	83.3	0	0.0
Satisfied	1	16.7	5	83.3
Neutral	0	0.0	1	16.7
Dissatisfied	0	0.0	0	0.0
Very Dissatisfied	0	0.0	0	0.0
Not applicable	0	0.0	0	0.0

11b. Availability of courses needed for your degree program	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	5	83.3	2	33.3
Satisfied	1	16.7	4	66.7
Neutral	0	0.0	0	0.0
Dissatisfied	0	0.0	0	0.0
Very Dissatisfied	0	0.0	0	0.0
Not applicable	0	0.0	0	0.0

11c. OSU academic facilities (e.g. classrooms, labs, buildings, etc.)	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	5	83.3	3	50
Satisfied	1	16.7	3	50
Neutral	0	0.0	0	0.0
Dissatisfied	0	0.0	0	0.0
Very Dissatisfied	0	0.0	0	0.0
Not applicable	0	0.0	0	0.0



11d. OSU academic advising	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	3	50.0	0	0.0
Satisfied	1	16.7	2	33.3
Neutral	1	16.7	3	50.0
Dissatisfied	0	0.0	1	16.7
Very Dissatisfied	1	16.7	0	0.0
Not applicable	0	0.0	0	0.0

11e. Preparation to handle non-career related goals (e.g. family, finances, etc.)	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	0	0.0	0	0.0
Satisfied	1	16.7	0	0.0
Neutral	1	16.7	2	33.3
Dissatisfied	2	33.3	1	16.7
Very Dissatisfied	1	16.7	2	33.3
Not applicable	1	16.7	1	16.7

11f. Availability of internship/practicum experiences	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	1	16.7	0	0.0
Satisfied	2	33.3	5	83.3
Neutral	1	16.7	0	0.0
Dissatisfied	0	0.0	1	16.7
Very Dissatisfied	1	16.7	0	0.0
Not applicable	1	16.7	0	0.0

11g. Overall education at OSU	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	5	83.3	0	0.0
Satisfied	1	16.7	6	100.0
Neutral	0	0.0	0	0.0
Dissatisfied	0	0.0	0	0.0
Very Dissatisfied	0	0.0	0	0.0
Not applicable	0	0.0	0	0.0



12. If you could start over, would you still choose to attend Oklahoma State University?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Definitely yes	3	50.0	3	50.0
Probably yes	2	33.3	3	50.0
Uncertain	1	16.7	0	0.0
Probably no	0	0.0	0	0.0
Definitely no	0	0.0	0	0.0

Career Reflection

Participants who indicated they were employed responded to the following items.

13. How closely is your job related to your field of study?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Not related	1	16.7	6	100.0
Somewhat related	1	16.7	0	0.0
Directly related	4	66.7	0	0.0

14. How well did OSU prepare you for meaningful employment?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very well	5	83.3	1	16.7
Adequately	0	0.0	4	66.7
Not very well	1	16.7	1	16.7
Not at all	0	0.0	0	0.0
Prefer not to answer	0	0.0	0	0.0

15. Overall, how satisfied are you with your career?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Very Satisfied	5	83.3	3	50.0
Satisfied	1	16.7	3	50.0
Neutral	0	0.0	0	0.0
Dissatisfied	0	0.0	0	0.0
Very Dissatisfied	0	0.0	0	0.0



Current Job or Career

16. Are you employed full-time (on average 30 hours or more per week) or part-time (on average less than 30 hours per week)?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Full-time	6	100.0	6	100.0
Part-time	0	0.0	0	0.0

17. How long did it take to find your first employment after graduating from OSU?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Employed by graduation	6	100.0	6	100.0
3 months after graduation	0	0.0	0	0.0
6 months after graduation	0	0.0	0	0.0
9 months after graduation	0	0.0	0	0.0
1 year after graduation	0	0.0	0	0.0
over 1 year after graduation	0	0.0	0	0.0

18. What is your official job title?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Assistant Superintendent	1		0	
Associate III	1		0	
Associate Structural Engineer	1		0	
Engineer II	1		0	
Engineer Intern	0		1	
Graduate Engineer	0		1	
Structural Engineer	1		0	
Structural Engineer	0		3	
Structural Engineer Intern	0		1	
Teacher	1		0	



19. What is the name of your current employer? Please include full name (no abbreviations).
Adolfson & Peterson Construction.
Black & Veatch.
BSE Structural Engineers.
Houston Independent School District.
PMA Engineering.
Snowden Engineering, Inc.
Wallace Engineering.
Walter P. Moore
Wiss, Janney, Elstner Associates, Inc.

20. Which of the following best describes your employer?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
A corporation, partnership, or private business	5	83.3	6	100.0
Military	0	0.0	0	0.0
Other governmental entity	0	0.0	0	0.0
Charity or other nonprofit entity	0	0.0	0	0.0
Educational institution	1	16.7	0	0.0
Other	0	0.0	0	0.0
Prefer not to answer	0	0.0	0	0.0

21. Does your job require: (This item was “mark all that apply”)	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Technology skills	6	13.6	5	14.3
Conducting research	2	4.5	2	5.7
Extensive training	3	6.8	3	8.6
Math skills	6	13.6	6	17.1
Problem solving/analytic reasoning	6	13.6	6	17.1
Speaking to a group	6	13.6	3	8.6
Use of specialized machinery	0	0.0	0	0.0
Use of specialized software	5	11.4	5	14.3
Working with a diverse group of people	6	13.6	3	8.6
Writing reports, memos, papers, publications, etc.	4	9.1	2	5.7



22. What is your approximate total annual salary (including bonuses), before taxes?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Less than \$15,000	0	0.0	0	0.0
\$15,000 but less than \$25,000	0	0.0	0	0.0
\$25,000 but less than \$35,000	1	16.7	0	0.0
\$35,000 but less than \$45,000	0	0.0	0	0.0
\$45,000 but less than \$55,000	0	0.0	3	50.0
\$55,000 but less than \$65,000	0	0.0	2	33.3
\$65,000 but less than \$75,000	0	0.0	1	16.7
\$75,000 but less than \$100,000	4	66.7	0	0.0
\$100,000 but less than \$125,000	1	16.7	0	0.0
\$125,000 but less than \$150,000	0	0.0	0	0.0
Over \$150,000	0	0.0	0	0.0
Prefer not to answer	0	0.0	0	0.0



Demographics

23. Which OSU campus do you most identify with?	2015		2019	
	<i>n</i>	%	<i>n</i>	%
Stillwater	6	100.0	6	100.0
Tulsa	0	0.0	0	0.0
Equally Stillwater or Tulsa	0	0.0	0	0.0
Online	0	0.0	0	0.0

24. In which country do you currently reside?	2015	2019
	United States of America	6

24a. In which state do you currently reside?	2015	2019
	IL	0
KS	0	2
MO	2	2
OK	1	0
OK-TUL	0	1
TX	1	3



Overall

25. What could OSU have done to better serve you?
I had a large portion of my student loans paid by scholarships. I also had help from my parents and consider myself pretty fortunate. I still graduated with thousands of dollars in student loan debt. OSU is doing its students a great disservice in that way. They need to do better.
Applied more engineering based designs in studios.
Prepared me for topics at work that were not covered in classes well.

26. What additional information would you like OSU to know?
The technical knowledge gained in the structural courses of the ARCH-E program was indispensable while seeking employment, and of good enough quality to set me on near equal footing with other candidates with Masters degrees. The design studio classes part of the ARCH-E program were helpful for design context, learning to draw, and learning general architectural design concepts, but were not as profoundly impactful as they were treated in the program.

Program-Specific Questions – ENG

ENG1. How well did your OSU education prepare you to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics?	2015		2019	
	n	%	n	%
Very well	5	83.3	5	83.3
Well	0	0.0	0	0.0
Adequately	1	16.7	1	16.7
Poorly	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Not applicable to my activities	0	0.0	0	0.0

ENG2. How well did your OSU education prepare you to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors?	2015		2019	
	n	%	n	%
Very well	5	83.3	0	0.0
Well	1	16.7	5	83.3
Adequately	0	0.0	1	16.7
Poorly	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Not applicable to my activities	0	0.0	0	0.0



	2015		2019	
	n	%	n	%
ENG3. How well did your OSU education prepare you to communicate effectively with a range of audiences?				
Very well	5	83.3	2	33.3
Well	0	0.0	2	33.3
Adequately	1	16.7	2	33.3
Poorly	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Not applicable to my activities	0	0.0	0	0.0

	2015		2019	
	n	%	n	%
ENG4. How well did your OSU education prepare you to recognize ethical and professional responsibilities in engineering situations and make informed judgments considering the impact of engineering solutions in global, economic, environmental, and societal contexts?				
Very well	3	50.0	2	33.3
Well	2	33.3	2	33.3
Adequately	1	16.7	2	33.3
Poorly	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Not applicable to my activities	0	0.0	0	0.0

	2015		2019	
	n	%	N	%
ENG5. How well did your OSU education prepare you to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives?				
Very well	5	83.3	2	33.3
Well	0	0.0	3	50.0
Adequately	1	16.7	1	16.7
Poorly	0	0.0	0	0.0
Not at all	0	0.0	0	0.0
Not applicable to my activities	0	0.0	0	0.0



		2015		2019	
ENG6. How well did your OSU education prepare you to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions?					
		<u>n</u>	<u>%</u>	<u>N</u>	<u>%</u>
Very well		3	50.0	0	0.0
Well		2	33.3	2	33.3
Adequately		0	0.0	3	50.0
Poorly		1	16.7	1	16.7
Not at all		0	0.0	0	0.0
Not applicable to my activities		0	0.0	0	0.0

		2015		2019	
ENG7. How well did your OSU education prepare you to acquire and apply new knowledge as needed, using appropriate learning strategies?					
		<u>n</u>	<u>%</u>	<u>n</u>	<u>%</u>
Very well		4	66.7	0	0.0
Well		2	33.3	4	66.7
Adequately		0	0.0	2	33.3
Poorly		0	0.0	0	0.0
Not at all		0	0.0	0	0.0
Not applicable to my activities		0	0.0	0	0.0

ENG8. Which OSU courses have been of greatest value to you in your current position?	
My structure courses (Steel Design, Concrete Design, Timber Design, etc)	
Statics, Basic & Intermediate Steel Design, Basic & Intermediate Concrete Design, Basic Timber Design, Foundation Design, Engineering Surveying, Comprehensive Design Studio, Project Management	
Statics, Steel, Concrete, Structural Analysis, Numerical Analysis	
Statics. (and being a statics TA) having a steady knowledge of the basics is critical for my job. I work with a lot of materials and types of structures that we didn't do in school. but if you know the basics you can tackle different challenges	
Steel II, Timbers, Static's, Structural Analysis	
Steel, Concrete, Timbers, Masonry, Structural Analysis	
Structural engineering courses of the ARCH-E program.	

ENG9. All CEAT Engineering programs are trying to continuously improve. Do you have any suggestions or comments that might contribute?	
More real world application and problems. And running projects through the whole design process and not just through one or two phases.	
Structural analysis could be expanded upon over 2 semesters in more detail.	

