



# Columbus Engineer

## Franklin County Chapter

A chapter chartered by the Ohio Society of Professional Engineers.

P.O. Box 69  
Reynoldsburg, OH 43068-0069

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### President's Message

Nathan Abele, P.E.  
– FCC President

FCC-OSPE hosted an ethics presentation in September as our first in person program in a couple of years. We are planning to do a combination of in person and virtual programs this year, but we need help with identifying presenters to talk on a technical, managerial, or ethical topic for our monthly programs. Please let us know if you have a topic or presentation for one of our programs.

We are working on a social event at Top Golf in November, so be on the lookout for more information.

We also currently have some vacant positions within the board to be filled and would appreciate any help that you could provide.

The imagine Engineering second grade coloring contest will be starting soon and will run through the spring of 2023. MATHCOUNTS will be happening February, and Science Day will occur in March.

Again, many thanks to our corporate sponsors for their continued support of our Chapter.

Thank You and I'm looking forward to working with everyone for this Chapter year!

Nathan Abele, PE  
FCC-OSPE, President



### Mark Your Calendars!

The date has been set for the 2023 E-Week Luncheon. This year's theme will be "Creating The Future". Be sure to mark you calendars for the February 23<sup>rd</sup> event!

**Date:** Thursday, February 23<sup>rd</sup>, 2023

**Time:** 12:00pm – 1:30pm

**Location:** Villa Milano

1630 Schrock Rd, Columbus, Ohio 43229



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## FCC-OSPE/OSPE AWARDS PROGRAM

Tina L. Sutermeister, P.E., F.NSPE  
– FCC-OSPE Awards Chair

Have you wondered whether you, an EI or PE colleague or one of your companies projects qualified for an FCC-OSPE Chapter award or an OSPE State award? With a new year (2022-23) starting for FCC-OSPE, this is your opportunity to consider submitting your company, your colleague or yourself for one of the FCC-OSPE/OSPE awards. Most of our awards are given at the Chapter level and then submitted to the State for consideration at the State level.

*What award is available to your Company?*

- Outstanding Engineering Achievement Award (Application Due to OSPE by February 1, 2023)

*What award is available to Engineering Students?*

- Outstanding Engineering Student Award (Application Due to OSPE by February 1, 2023)

*What award is available to Engineering Educators?*

- Outstanding Engineering Educator Award (Application Due to OSPE by February 1, 2023)

*What award is available to Legislators that support the Engineering profession?*

- OSPE Legislator of the Year Award (Application Due to OSPE by March 31, 2023)

*What awards are available to either a PE Colleague or yourself?*

- OSPE Young Engineer of the Year Award (Application Due to OSPE by December 1, 2022)

- OSPE Citation (Application Due to OSPE by February 1, 2023)
- OSPE Meritorious Service Award (Application Due to OSPE by February 1, 2023)
- OSPE Uncommon Engineer Award (Application Due to OSPE by March 31, 2023)
- OSPE Professional Engineering Management (Application Due to OSPE by March 31, 2023)

*What award is available to the Chapter?*

- Overall National Engineer's Week Observance (Application Due to OSPE by March 31, 2023)

**KEEP READING for MORE DETAILS  
on the AWARDS:**

***OSPE Legislator of the Year Award*** – This award recognizes a state legislator who has given significant support to the engineering profession, allowing the profession to maintain its commitment to the health, safety and welfare of the public. The award candidate must be a sitting member of the Ohio House of Representatives or of the Ohio Senate.

***OSPE Meritorious Service Award*** – This award is presented on the basis of service to OSPE at both, the Chapter and the state levels and for outstanding contributions to the goals and objectives of OSPE. The award recipient shall be an active member in a Chapter and the emphasis is placed on continuous meritorious service over a long period of time.

***OSPE Citation*** – This is the highest honor that OSPE bestows upon an engineer. This award is presented annually to an Ohio Engineer with distinguished

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**Awards Program, continued –**

leadership in the engineering profession and in appreciation of selfless devotion to the highest ideals of service to society and to the profession, and for sustained contributions to the technical and professional aspects of the engineering profession.

**OSPE Outstanding Engineering Achievement Award** – This award is presented in recognition for outstanding engineering accomplishments in manufacturing, construction or design, or combinations thereof. The nominated project(s) must have been completed during the calendar year preceding the award presentation and the nominated project(s) may be located outside the OSPE Chapter geographical area.

**OSPE Outstanding Engineering Educator Award** – This award is presented to a member of the engineering faculty of an ABET-accredited engineering program in an Ohio school, the educator shall have at least 5 years of experience subsequent to graduation from an accredited Engineering school, and the educator must be teaching an engineering course during the current term.

**OSPE Outstanding Engineering Student Award** – This award is presented to an engineering student from an ABET accredited Ohio engineering school based on scholastic achievement, participation in professional, technical, and other activities.

**OSPE Overall National Engineers Week Observance Award** – This award is presented to the OSPE Chapter that excels in its week-long program to promote the engineering profession and educate the community of the true meaning and purpose of National Engineers Week. The goal of the Engineers Week program is to recognize outstanding Engineering achievement in your community and to combine all events of National Engineers Week into a smooth, effective, and harmonious function.

**OSPE Professional Engineering Management Award** – This award recognizes leadership, organizational, and management skills in an engineering environment. This award recipient has years of successful experience in Engineering management at various levels and has been instrumental in introducing a new process, or change to an existing process within the Engineering organization that this recipient has successfully managed.

**OSPE Uncommon Engineer Award** – This award recognizes the long and distinguished service to the engineering profession; devotion and commitment to the state society and the local chapter; high standards of professionalism; and guidance in the role of a team player. The candidate must be a registered PE and must be a member in good standing with OSPE.

**OSPE Young Engineer of the Year** – The FCC-OSPE Young Engineer of the Year Award is presented in recognition of the outstanding professional accomplishments of the Franklin County Chapter’s Young Engineers. Are you a Chapter and an OSPE State member in good standing? Will you be age 35 or younger as of January 1, 2023? You can be either a PE or an EI. The evaluation criteria for this award include: Educational and Collegiate Achievements, Professional Society Activities, Technical Society Activities, Civic and Humanitarian Activities, Continuing Competence, Engineering Achievements and Professional Experience.

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Awards Program, continued -

**NOTE:** Any questions regarding nominating applicants for these FCC-OSPE/OSPE awards, please contact the FCC-OSPE Awards Chair Tina Sutermeister, P.E., F.NSPE at [tlsuterm@embarqmail.com](mailto:tlsuterm@embarqmail.com) or one of the following FCC-OSPE Awards Committee Members: Rao Chitikela, PhD, P.E. at [sraochitikela@gmail.com](mailto:sraochitikela@gmail.com) or Mehrdad Rowhani, P.E. at [mehrdadrowhani@gmail.com](mailto:mehrdadrowhani@gmail.com).

Submit your nominations **at least one to two months prior to the application due date** as these awards have forms that must be completed prior to being submitted for these awards. All nominations will be presented at an upcoming FCC-OSPE Board meeting, and you will be notified after the Board meeting of the status of your submission.



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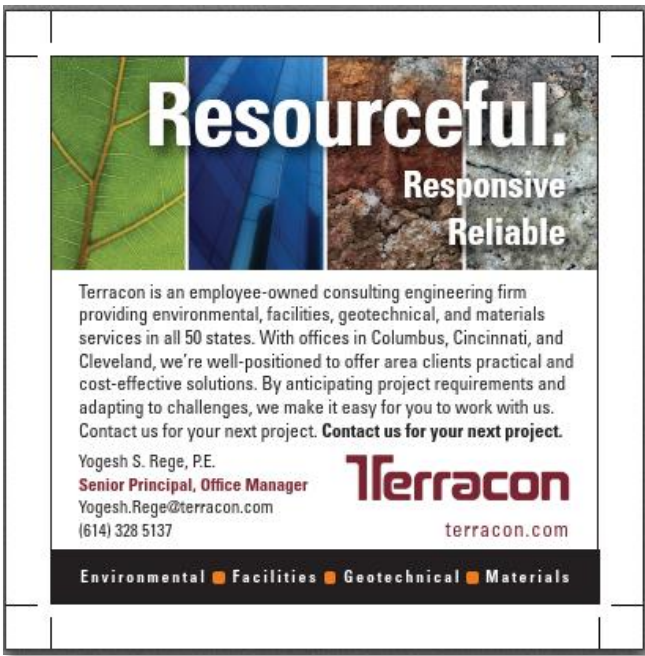
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**The National Science Foundation’s new program, ExLENT, will help individuals gain work experience in emerging technologies through internships and other real-world experiences.**

The National Science Foundation launched a new workforce development program called Experiential Learning for Emerging and Novel Technologies, or ExLENT, aimed at expanding practical opportunities for individuals to learn about and gain experience in emerging technology, thereby bolstering competitiveness in the emerging technology workforce.

The \$30 million program—under the Directorate for Education and Human Resources and the Directorate for Technology, Innovation and Partnerships—will have opportunities in advanced manufacturing, artificial intelligence, biotechnology, quantum information science, semiconductors and microelectronics. ExLENT will provide awards of up to \$1 million over three years to partner organizations in the emerging technology field and those with workforce development expertise.



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ExLENT, continued –



The ExLENT program is designed to offer experiential learning opportunities—or “learning by doing” experience—to individuals from diverse professional and educational backgrounds to increase access and interest in emerging technology careers. Part of NSF’s mission is to support emerging technologies and help address workforce shortages, particularly in emerging fields like semiconductors. The program will help address challenges to gaining hands-on learning opportunities, particularly for those not currently enrolled in higher education.

“The ExLENT program offers a new pathway for individuals from diverse backgrounds and experiences to gain on-the-job training in technologies that are critical to the nation’s long-term competitiveness,” Erwin Gianchandani, NSF assistant director for technology, innovation and partnerships, said. “This program acknowledges that traditional STEM education pathways are not by themselves sufficient to address the large workforce shortages that the nation faces today in emerging technology areas. Training individuals at any and all stages of their careers or with varying experience in the STEM workforce can ensure more equitable access to high-skill, well-paying STEM job opportunities.”

The program will use a cohort model and focus on mentorship to help connect companies, governments and nonprofits with current or potential STEM learners in the program, who are looking for paid opportunities to explore careers and develop skills in emerging technology. For example, proposed opportunities include “fully immersive experiences, such as internships, to extensive course-based activities that are constructed by (or driven by) workplace partner input to approximate real-world experiences.”

“Partnerships are the future of STEM innovation,” James L. Moore III, NSF assistant director for education and human resources, said. “ExLENT’s cohort and mentoring model will help so many individuals develop much-needed skills to support our STEM workforce needs, especially in areas of utmost importance to our nation’s prosperity and security.”

The ExLENT program offers three different tracks for people with different levels of STEM experience: pivots, beginnings and explorations.

The pivots track gives professionals in any field a chance to build needed skills to redirect their careers into emerging technology fields. The beginnings track offers people with limited STEM training an opportunity to gain more knowledge and experience to pursue a career in an emerging technology field. The explorations track will give individuals with no prior STEM experience a chance to build “interest, motivation and knowledge” in an emerging technology as a potential career.

Program projects are supposed to “contribute to the knowledge base that informs best practices in STEM education” by, for example, having a plan to gather and analyze appropriate data and assess the effectiveness of strategies. Additionally, projects can show their worth via an evaluation of project activities, impacts or outcomes. ExLENT projects should also “reimagine and/or transform existing approaches to identifying, attracting and retaining diverse talent in emerging technology fields.”

Proposals for the ExLENT program are due March 2, 2023.

*(By Kirsten Errick, Tech Reporter, Nextgov, excerpted from NSPE Daily Designs, October 24, 2022)*



## 2022-2023 CALENDAR

DATE	TIME	DESCRIPTION
Nov. 3-4		EFO Fall CPD Conference
Nov. 4	5:00 p.m.	Deadline for November Columbus Engineer
Nov. 8	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Nov. 11	5:00 p.m.	Top Golf RSVP
Nov. 17	6:00 p.m.	Social Event: Top Golf
Dec. 2	5:00 p.m.	Deadline for December Columbus Engineer
Dec. 13	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Dec. TBD	12:00 p.m.	Program: TBD
Jan. 6	5:00 p.m.	Deadline for January Columbus Engineer
Jan. 10	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Jan. 19	12:00 p.m.	Program: TBD
Feb. 3	5:00 p.m.	Deadline for February Columbus Engineer
Feb. 11	8:00 a.m.	Regional MathCounts Competition @ CSCC
Feb. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Feb. 23	11:30 a.m.	Program: E-Week Luncheon - Villa Milano – Theme: "Creating The Future"
Feb. TBD	8:00 a.m. – 3:00 p.m.	Engineer for a Day Program
Mar. 3	5:00 p.m.	Deadline for March Columbus Engineer
Mar. TBD	8:15 a.m. – 4:00 p.m.	Ohio MathCounts Competition (OSPE, see <a href="http://www.ohioengineer.com">www.ohioengineer.com</a> )
Mar. 14	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Mar. TBD	12:00 p.m.	Program: TBD
Mar. TBD		District Science Day @ CSCC
Apr. 7	5:00 p.m.	Deadline for April Columbus Engineer
Apr. 11	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
Apr. TBD	12:00 p.m.	Program: TBD
May 5	12:00 p.m.	Deadline for May Columbus Engineer
May 9	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
May 18	6:30 p.m.	Chapter Officer Installation & Awards Dinner
June 2	5:00 p.m.	Deadline for June Columbus Engineer
June 13	12:00 p.m.	FCC Board Meeting @ CEC, Inc. and Virtual
June TBD	12:00 p.m.	Program: TBD
July TBD	(TBA)	FCC Budget Meeting - Location to be announced

**Civil & Environmental Consultants, Inc.**  
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### WHERE DO I GET MORE INFORMATION?

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NSPE WEBSITE:	<a href="http://www.nspe.org">www.nspe.org</a>	
To volunteer to help with MATHCOUNTS:	<a href="mailto:benjamin_brown68@yahoo.com">benjamin_brown68@yahoo.com</a>	(614) 519-8978
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To volunteer to help with OSU Student Chapter:	<a href="mailto:Kayla.saggio@gmail.com">Kayla.saggio@gmail.com</a>	
To volunteer to help with Imagine Engineering:	<a href="mailto:devonseal1@gmail.com">devonseal1@gmail.com</a>	(614) 208-6986
FCC Luncheons / Programs:	<a href="mailto:ddoherty@cecinc.com">ddoherty@cecinc.com</a>	(614) 359-6321
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