

# Workshop Proposal Guide

2017 ASEE PreK-12 Engineering Education Workshop  
“Inspiring the Next Generation to Take Flight with PreK-12 Engineering Education”  
Saturday, June 25, 2016 8AM – 5PM  
Columbus, OH

Responses to the items in this form will be needed for your workshop proposal submission that must be completed in Monolith when the submission time opens in January. This form is being provided to assist you with preparing your submission.  
Only workshop submissions done through Monolith will be accepted—no faxes or emails please.

**Deadline**  
**Friday, February 3, 2017 by 5:00PM EST**  
*Presenters will be notified of acceptance status by March 17.*  
*Late submissions will not be accepted.*

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## SUBMISSION INFORMATION

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Provide the first and last name of each presenter, including affiliations. If there is more than one presenter, designate one person as the organizer and provide only that person’s contact information. The organizer is responsible for communicating to co-presenters.

Number of Presenters: \_\_\_\_\_

Presenter Name(s):

1) Last \_\_\_\_\_ First \_\_\_\_\_ Affiliation \_\_\_\_\_

2) Last \_\_\_\_\_ First \_\_\_\_\_ Affiliation \_\_\_\_\_

3) Last \_\_\_\_\_ First \_\_\_\_\_ Affiliation \_\_\_\_\_

Contact Person’s Name: \_\_\_\_\_

Contact Person’s Email: \_\_\_\_\_

Contact Person’s Phone: \_\_\_\_\_

Contact Person’s Alternate Phone: \_\_\_\_\_

Please provide a one-paragraph bio for each presenter (in the order listed above). The bio should not exceed 70 words and should be written as you would want it to appear on the ASEE website and program materials.

1) \_\_\_\_\_

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2) \_\_\_\_\_

3) \_\_\_\_\_

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## WORKSHOP INFORMATION

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We are offering two tracks at the PreK-12 Workshop this year. The first track will be beneficial to educators, as it focuses on PreK-12 student learning experiences that feature hands-on activities. The second track will be beneficial for academic advising/counseling professionals, as it focuses on engineering professions and career options.

For the student learning experiences track, the individual PreK-12 workshops should prominently:

- feature hands-on classroom activities
- provide take-home or classroom-ready materials, in addition to written materials
- engage participants in interactive exercises
- explicitly feature strategies, activities and/or curricula that use engineering in an Integrated STEM activity or project
- include technical content, use of the engineering design process, and ideas for effective teaching/pedagogy
- address diversity and how to attract/retain students in STEM
- be linked to national standards (e.g., the [ITEEA Technological Literacy Standards](#), the [Next Generation Science Standards](#), the [Common Core State Standards in Mathematics](#)).

For the Counselor’s Connection track that features engineering professions and career options, the individual workshops should prominently:

- include information about careers in engineering
- address diversity and how to attract/retain students in STEM

Select the workshop track to which you are submitting (check only one):

- PreK-12 Student Learning Experiences
- Counselor’s Connection

This year we are continuing to include a PreK-12 Curriculum Showcase session that features original ideas and innovative models that show how educators integrate engineering and STEM. Are you interested in participating in the PreK-12 Curriculum Showcase?

- Yes
- No
- I only want to participate in the PreK-12 Curriculum Showcase

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Workshop Title: \_\_\_\_\_

## **Abstract:**

*Please provide a concise description that includes the workshop’s learning objectives (maximum 750 characters). The abstract is used on the ASEE website, program materials, and other K-12 Workshop promotional activities.*

Please provide a **detailed description** of the proposed workshop that, at minimum, explicitly addresses the following (maximum 4,000 characters):

- a. Learning objectives
- b. Hands-on activities and interactive exercises
- c. Materials that participants can take with them
- d. Practical application for teachers and outreach staff or counselors

For the PreK-12 student learning experience track - describe how your workshop will explicitly address the use of engineering in an integrated STEM activity or project.

For the Counselor’s Connection – describe what information your session will provide that counselors will be able to take away with them.

(maximum 2,000 characters):

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Identify and describe which attributes will be explicitly addressed by your workshop. At least one of those must be within the first six listed, below; i.e., do not only check “other”. Check all that apply:

- Diversity
- Engineering Design Process
- Technical content
- Effective teaching/pedagogy
- Attracting or retaining students in STEM
- Other (please describe below)

Are there any online components to the proposal or presentation? (Note that these online components may only be available to presenters or those who have their wireless subscriptions, since wireless may not be available during the workshop sessions.)

- No
- Yes

Please describe:

Maximum Number of Participants: \_\_\_\_\_

If this number is greater than 25, please describe how your workshop will equally engage all participants.

Please indicate the preferred duration of your workshop:

- Strongly prefer providing one 1 hour workshop.
- Strongly prefer providing one 1 hour 30 min workshop
- Would prefer providing one 1 hour 30 min workshop, but could shorten the workshop to accommodate a 1 hour format if necessary.\*

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If you stated that you preferred a 1 hour 30 min workshop format, you must provide justification for why the longer format is preferred (maximum, 2,000 characters).

Grade Level Target Audience (check all that apply):

- Elementary (PreK–4)
- Middle School (5-8)
- High School (9-12)

All Seating is Classroom (tables and chairs).

Audio Visual Equipment Requests:

***Note:** An LCD projector, screen and podium with attached microphone are provided. Requests for additional equipment or resources (e.g., internet connection or laptops) will incur extra charges.*

*If you do not have additional requests, please indicate with “Not applicable.” \_\_\_\_\_*

## Reminder:

ASEE K-12 Workshop Presenters **must register and pay the registration fee** to support their workshop attendance and audio/video costs.