



ASEI Youth Technology Exhibition (YTE) 2018

You are invited to participate in the third ASEI Youth Technology Exhibition (YTE) for Middle and High School students. ASEI YTE is designed to encourage exploration and application of Science, Technology, Engineering and Math (STEM) principles.

ELIGIBILITY:

The YTE 2018 is open to all legal U.S. residents who are currently enrolled in 5th through 12th grades at a public, private, parochial, or a home school. Students must comply with official rules and follow the guidelines available at www.aseiusa.org/NC/YTE.

EXHIBITION TIME & LOCATION:

The exhibition will be open from 12:00 PM EST to 4:00 PM EST on November 4th 2018 in the Southfield Parks & Recreations at Southfield, MI.

BENEFITS TO PARTICIPANTS:

1. Unique opportunity to showcase understanding of STEM to over 200 professionals including scientists, engineers, entrepreneurs, and corporate leaders from across USA
2. ASEI recognition plaque
3. \$25 gift certificate

HOW TO REGISTER:

A parent/legal guardian of student must visit www.aseiusa.org/NC/YTE and follow the on-screen directions to complete the Consent Form. Additionally, complete the Application Form (one per team). Both forms must be completed before October 28, 2018. Following items must be completed for each student: Student's full name, email address, age, grade, school name, parent/legal guardian's name, phone number, and e-mail address. If the Consent Form and the Application Form are not received by ASEI by the deadline stated above, the student will not be able to participate. **Please submit YTE application documents to info@aseiusa.org.**

EXHIBITION IDEAS:

Who is an engineer?

Engineers use their imagination and analytical skills to invent, design, and build things that matter. They are team players with independent minds who ask, “How can we develop a better recycling system to protect the environment, design a school that can withstand an earthquake, or create cutting-edge special effects for the movies?” Engineers are changing the world all the time by dreaming up creative and practical solutions.

What do engineers do?

- Think creatively. Engineering is an ideal outlet for imagination and creative problem solving — the perfect field for independent thinkers.
- Work with great people. Engineering takes teamwork. As an engineer, you’ll be surrounded by smart, creative and inspiring people.
- Solve problems and design things that matter.
- Engineers improve peoples’ lives by tackling problems, improving designs, and coming up with solutions no one else has thought of.
- Change the world and make a difference.
- Among many other pursuits, engineers develop systems that save lives, prevent diseases, reduce poverty, and protect our planet.

Recommendations:

- Your exhibit should be solving a problem by using engineering or technology.
- It should be related to the real world.
- Pick concepts from areas that affect everyday life.
- Use everyday materials as much as possible. Think of choices; walk around the house and the lab first before you go shopping.
- Establish clear minimum criteria for meeting your concept.

For more great reasons to become an engineer, fun projects, and profiles of engineers doing innovative work, visit the following web sites:

- Engineer Your Life at www.engineeryourlife.org
- Discover Engineering at www.discovere.org
- Science Fair Project Ideas at www.education.com/science-fair

SELECTION CRITERIA:



All entries will first be screened to ensure they meet eligibility criteria. A Selection Panel from the ASEI Michigan chapter, educators, and science professionals will review each entry.. Selected teams will be required to attend a meeting to review exhibition details and logistics, a few days before the event. Date and time will be communicated to you eventually.

Decision of the Selection Panel will be final and binding.

ITEMS PROVIDED TO EACH SELECTED TEAM:

1. One 6 ft. table. Additional tables will not be allowed.
2. 2 Chairs – Additional chairs available if requested.
3. One electrical outlet. Extension cord will not be provided. Team may bring their own extension cord.
4. Please contact Youth Technology Exhibition coordinators for specific requests.

AWARDS:

Participants from all selected entries will be awarded an ASEI Plaque and a \$25/- Gift Certificate.

CONTACT:

E-mail info@aseiusa.org or feel free to contact the following Youth Technology Exhibition 2018 coordinators for any questions:

Lalita Kambhampati - 313 645 3894

Vatsala Upadhyay - 313 645 3884

GENERAL GUIDELINES:

These guidelines are for your general knowledge and are not a substitute for professional advice or common sense. Be sure to thoroughly research your engineering concept prior to conducting your project. ASEI will not be responsible for any type of damage or injury.

1. There is a limit of 4 (four) maximum and 2 (two) minimum participants per team.
2. Research the engineering concept thoroughly to understand any dangers involved in your demonstrations.
3. You cannot use (i) human blood / body fluids, (ii) animals, (iii) live ammunition, firearms, or explosives, (iv) poisonous plants, or (v) radioactive material.
4. Parts of the body are not to be placed in danger. Do not directly view the sun, infrared, or ultraviolet sources.
5. Do not taste any non-food substance or food substance that has been subjected to possible contamination.
6. Dress safely for your presentation (e.g., gloves, eye protection, apron, ear protection, safety shield, etc., if required).
7. No hazardous materials are allowed.
8. Comply with all local fire & safety rules and regulations. Use caution when heating all forms of matter; always have a fire extinguisher available.
9. Thoroughly check all motors to make sure all parts are sturdy and that safety nuts are securely fastened.
10. Always obtain the necessary permits prior to conducting your demonstration.
11. Always practice your demonstration before exhibiting.
12. We strongly recommend that you review the safety guidelines established by the National Science Teachers Associations at:
<http://www.nsta.org/pdfs/SafetyGuidelines.pdf>.

CONSENT FORM - [submit YTE application documents to info@aseiusa.org](mailto:info@aseiusa.org).

ASEI Youth Technology Exhibition (YTE) 2018

Dear parent / legal guardian of participant,

Your son/daughter is invited to participate in ASEI Youth Technology Exhibition 2018. ASEI Michigan Chapter is asking for permission to include your son/daughter in this ASEI YTE 2018.

Participants will be required to follow ASEI rules and guidelines for this exhibition. Any information that is obtained in connection with this exhibition will remain confidential and will be disclosed only with your permission. Participant's responses will not be linked to his/her name or your name in any written or verbal report of this exhibition.

If you have any questions or concerns about your son's/daughter's participation in this exhibition, please contact Youth Technology Exhibition 2018 Coordinators.

You may keep a copy of this consent form.

You are making a decision about allowing your son/daughter to participate in this exhibition. Your signature below indicates that you have read all the information provided above and have decided to allow him/her to participate in the exhibition. If you later decide that you wish to withdraw your permission for your son/daughter to participate in the exhibition, simply send an email to info@aseiusa.org.

Printed Name of Parent or Legal Guardian

Printed Name of son/daughter

Signature of Parent or Legal Guardian

Date

Signature of ASEI Investigator

Date

APPLICATION FORM - [submit YTE application documents to info@aseiusa.org](mailto:info@aseiusa.org).

ASEI Youth Technology Exhibition (YTE) 2018 - maximum 4 & minimum 2 participants

Exhibit Title and Details: _____

1. Participant Name: _____

Age: ___ Grade: ___ School Name: _____

Parent Name: _____

Email / Phone: _____

2. Participant Name: _____

Age: ___ Grade: ___ School Name: _____

Parent Name: _____

Email / Phone: _____

3. Participant Name: _____

Age: ___ Grade: ___ School Name: _____

Parent Name: _____

Email / Phone: _____

4. Participant Name: _____

Age: ___ Grade: ___ School Name: _____

Parent Name: _____

Email / Phone: _____

