



MATERIALS CAMP[®]
ASM MATERIALS EDUCATION FOUNDATION

MATERIALS ENGINEERING CAMP

ATTENTION:
High School
Students



*Are you interested
in science and
engineering?*



Who Can Attend?

- Students entering their **Junior** or **Senior** year of High School, in Fall 2016.
- Highly motivated, inquisitive learners, with math and science aptitude.
- Students involved in math, science, and industrial technology classes.

What Is It?

- Week-long summer day camp utilizing fun hands-on learning experiences involving math, physics, and chemistry.
- Hands on metallurgical experiences through foundry and blacksmith activities
- A unique team-based, intensive problem solving, science experience, under the direction of a distinguished faculty "Materials Mentor."
- Combination of mini-demonstrations, field trips, and laboratory activities to actively explore materials science & engineering principles.

Where & When Is It?

- **July 25 - 29, 2016**
- **8:00 am - 4:00 pm**
- **Bradley University, Various Caterpillar Facilities, Plant Tours of Local Industries**

Cost of Camp?

- 30 full scholarships will be provided to selected participants.
- All selected students receive **FREE** tuition, knowledge, meals, and fun activities.



How to Apply?

- **EXTENSION! Applications NOW due *May 2, 2016***
- Applicants will be notified by **May 16** on decision.
- The application form is available online at <http://goo.gl/forms/EyRehcZ9Cl>
- Current high school transcript (unofficial is allowed) is required for every applicant.
- Submit your transcripts to (email preferred):

Mail: Lindsey Cavanaugh
(41) Tech Ctr-K/Rm 132
14009 Old Galena Road
Mossville, IL 61552

Email: Cavanaugh_Lindsey_S@cat.com

Phone: (309) 675-2596



Link to application

www.asm-afs-peoria.org

Frequently Asked Questions

What is Materials Engineering Camp?

- A week-long summer camp geared toward high school juniors and seniors exploring the exciting field of Material Science and Engineering.
- A day camp (non-residential), starting at 8:00 am and running until 4:00 pm Monday through Friday.

How are students selected?

- Students must have a basic knowledge of algebra, chemistry, and physics and describe why they want to learn more about engineering and materials science as a possible college major/career.
- Experienced, practicing engineers review each application to select the “best and brightest,” highly motivated students, who have an interest in engineering.
- Prior participation in science fairs or similar science-oriented activities is helpful but not required.

What is the structure of the camp?

- Monday: Hands-on workshops on the Bradley University campus.
- Tuesday, Wednesday, & Thursday: Team activities at various materials facilities in the area, including the Hot Iron Blacksmith, Bradley University Art Foundry, and Caterpillar.
- Friday: Team presentations and graduation ceremony.
- There will also be plant tours of local materials engineering industries (transportation provided).
- Students are responsible for providing their own transportation to/from the Camp daily. Transportation to camp activities during the day (8:00 am—4:00 pm) will be provided.
- A more detailed itinerary will be provided on the first day of the Camp.

What do students learn at Materials Camp?

Students have the opportunity to gain hands-on experience with materials processing and solve materials problems in a fun, interactive environment with their peers. During the week, students will have the opportunities to interact with adults employed in the industry and use a variety of processing and analysis techniques employed by practicing engineers every day. At the end of the Materials Camp, the students will walk out with a greater understanding of materials and materials engineering, as well as experience solving real-life materials problems in a stress-free learning environment.

What types of people work in this field?

Materials engineering professionals are typically college graduates who studied engineering with an emphasis on metals, ceramics, or polymers.

What is ASM International?

It has a global professional membership of 40,000 professionals working in the field of Materials Science and Engineering. ASM Materials Education Foundation is a non-profit organization devoted to helping excited young people worldwide to explore the field of Materials Science and Engineering. Programs include: Educational and career services, “Materials Camps,” scholarships, leadership training, and providing information that promotes careers in the field.

Who pays for Materials Camp?

The ASM Materials Education Foundation, the Peoria Chapter of ASM, and local industries provide funds for all camp expenses, including food, tuition and tours.