



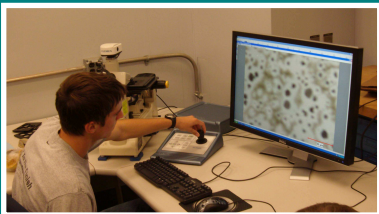
# MATERIALS ENGINEERING CAMP

July 27-31, 2015

**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 2015.
- 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.
- 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 27 - 31, 2015**
- **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?

- Applications are due before **April 17, 2015**.
- Applicants will be notified by May 1, 2015 on decision.
- The application form is available online at <http://goo.gl/forms/6yniwvfc8s>
- 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](http://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.

## **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, 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.