



Application Date Extended--Apply by 15 June!

# MATERIALS ENGINEERING CAMP<sup>SM</sup>

July 25-29, 2011  
Peoria, Illinois

[www.asm-afs-peoria.org](http://www.asm-afs-peoria.org)

## ATTENTION: High School Students!

### Who:

- Students entering their Junior or Senior year of high school, in Fall 2011.
- Highly motivated, inquisitive learners, with math and science aptitude.
- Students involved in math, science and industrial technology classes.

### What:

- Weeklong 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:

- **July 25-29, 2011**
- **8:30am - 4:00pm**
- **Bradley University, Various Caterpillar Facilities, Plant Tours of Local Industries**

### Cost:

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

### How to apply:

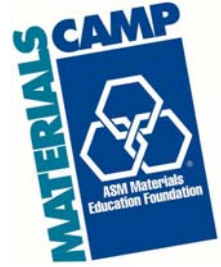
- Applications are due by **June 15, 2011**.
- *Applications are reviewed as they are received, so Camp may fill up before this date!*
- The application form is available on-line <http://www.asm-afs-peoria.org/students.asp>
- One letter of recommendation is required for every applicant.
- Submit your applications to:

**Marv McKimpson, Caterpillar Inc.**

**Mail:** (41) Tech Ctr-K/Heat Treat  
14009 Old Galena Road  
Mossville, IL 61552

**Email:** [McKimpson\\_Marv@CAT.com](mailto:McKimpson_Marv@CAT.com)  
**Phone:** 309-578-5189

## Frequently Asked Questions



### What is Materials Engineering Camp?

- A weeklong 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 8:30 am and running to 4:00 pm.

### How are students selected?

- Students must have 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 projects at various materials labs in the area, including 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 their assigned locations.
- 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 solve problems in a fun, hands-on environment with their peers. During their week of learning, students will have the opportunities to interact with adults employed in the industry and use a wide variety of sophisticated analysis techniques used by engineers every day. At the end of the Materials Camp, the students will walk out with the rich experience of having solved a real life materials problem 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 is 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. Camp mentors are volunteers, who often take personal vacation time to enable their participation.

