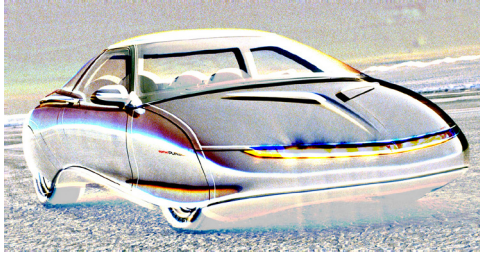


Camp Badger Exploring Engineering

Week-long camps in Madison for students entering 8th grade in the fall
Camps run Sunday afternoon through Saturday morning

Sponsored by University of Wisconsin-Madison College of Engineering,
Department of Engineering Professional Development and Office of Diversity Affairs
and grants from Placon, Incorporated



June 20–26, 2010
June 27–July 3, 2010
July 11–17, 2010
July 18–24, 2010
July 25–31, 2010

What do engineers do?

Application due date: March 15, 2010

Design everything from skateboards to rockets to robots.

- Help provide electricity and other energy sources to keep us comfortable and healthy.
- Build structures that are safe and comfortable for us to live and work in.
- Improve life on a daily basis by solving existing problems and helping avoid future problems.

We want you to attend Camp Badger because you may:

- be interested in science and math and how they relate to engineering.
- like to read science fiction or factual books about science and engineering.
- just be curious about what engineering is and what engineers do.

About Camp Badger:

- One-week residential program for Wisconsin teenagers who will be entering 8th grade in the fall.
- An opportunity to survey many types of engineering fields and begin to see the study of science and math as a path that can lead to great careers.
- Scholarships available (full and partial need-based).

Who Can Participate:

- Wisconsin students entering 8th grade in the fall.
- Students, who together with their parents and teacher, have filled out the two-page Application Form, which includes general information, session preference, student/parent agreement, typewritten student essay, school transcript, teacher letter of recommendation and teacher financial assistance recommendation before March 15, 2010.

Approach: The College of Engineering founded Camp Badger in 1998. Experience has taught us that the best way to help young people understand what engineers do is through a combination of plant tours, field trips, visits to job sites, in-class activities, and small group discussions with professional and student engineers.

From the time campers arrive on Sunday afternoon until they leave the following Saturday morning, we keep them busy with engineering-related activities. Our campers:

- participate in project-based engineering/science exploration.
- work in high-tech computer labs.
- visit engineering facilities on and off campus.
- tour local companies.

Campers will observe and participate in applied knowledge situations in labs and research facilities so they will have a better idea of what engineers do in real-life situations.

Supervision: Camp Badger campers are never left unsupervised. They eat their meals at a UW-Madison cafeteria and live in an undergraduate residence hall on campus. We have adult counselors in the dormitories all night. During the day, our program counselors supervise campers and share their educational experiences.

Because we want our campers to learn as much as possible about all the different facets of engineering, we follow a full schedule of activities and our curriculum leaves campers with very little unstructured "free time."

Activities: In past years our campers have:

- visited an airport control tower, a fusion reactor, an 11-story construction site, the Kohl Center, the Tenney Locks, nuclear power plant, and a coal-burning heating plant.
- developed telescopes and looked through the University telescope in the Washburn Observatory.
- toured the Geology Museum.
- discovered an inside look at UW experimental cars.
- explored the cockpit of an F-16.
- observed the robotic assembly line at GM-Janesville.
- toured behind the scenes at a state-of-the-art bowling alley during the entertainment engineering day.
- viewed demonstrations of paper making, wind tunnel testing, and set-up of an industrial assembly line.

Above all, they have had a lot of fun and learned what engineers contribute to the world.

Program Cost:

- The \$295 fee for the week includes dorm room and board, all field trips, and scheduled recreational activities. Campers are responsible for transportation from their homes to Madison and back. In special circumstances transportation assistance may be available.
- Financial aid scholarships for the program are available! The cost can be reduced to \$25 or \$150 based on need, as specified by teacher recommendation.

How to Apply to Camp Badger:

We accept 30-32 campers for each session of the camp. Your application must be postmarked by **March 15, 2010**. Applications received later will be considered if there is space available.

All application materials are available online at the Camp Badger Web site: campbadger.engr.wisc.edu.

If you are unable to download the application materials, please call 608/262-8219, 800/462-0876 or send an e-mail to: campbadger@epd.engr.wisc.edu, and we will send you the forms you need.

To apply for Camp Badger Exploring Engineering, campers must send:

1. You, your parent(s) or guardian(s), and teacher must complete and sign both pages of the Application Form.
2. Write a one-page Student Essay (double-spaced, typed and signed) describing:
 - The coolest or most fun thing you have done or learned in science. Tell us about it and discuss why you think this experience was special.
 - What you like and dislike about math and science.
3. Obtain a copy of your most recent school transcript record or report card.
4. Ask either your math or science teacher or the school guidance counselor to write a letter of recommendation and fill out the financial assistance recommendation. The letter should reflect your academic performance and describe your interests and accomplishments in science and math.

All the information you send will remain confidential. If you are accepted to the program, you will be notified the week of April 5, 2010. Once accepted, you must confirm your participation by April 19, 2010.

Mail Your Camp Badger Application Materials (postmarked by March 15, 2010)

or Contact for More Information:

Debbie Richardson, Camp Coordinator
Engineering Professional Development
432 North Lake Street, Room 707
Madison, WI 53706

(800)462-0876/(608)262-8219

campbadger@epd.engr.wisc.edu
campbadger.engr.wisc.edu

Applications must be postmarked by March 15, 2010.

General Information

Camper's Name _____
last name first name middle initial

Address _____
house number street apartment number

city state zip Gender: Male Female

Parent or Guardian _____ Phone(s) _____
name home work

Parent or Guardian _____ Phone(s) _____
name home work

Emergency/Alternate Contact _____ Phone(s) _____
name home work

Date of Birth _____
month/day/year

School Name _____

School Location _____

Grade Level you will enter in the fall if not 8th _____

Current Grade Point Average: (please circle)
A/4 B/3 C/2 D/1 F/0

Please list any previous pre-college programs the camper has participated in on any campus (include name of college or university sponsor), or any other extracurricular, after school, work or volunteer activities in which they have participated. _____

Race/Ethnicity: please circle

(1) African American/Black
 (2a) Cambodian, Laotian, Vietnamese, Hmong
 (2b) Asian/Pacific Islander
 (3) American Indian or Alaskan Native

Tribal Affiliation _____

(4) Hispanic/Latino
 (5) White/Non-Hispanic
 (-) Other _____

Camp Badger Session Preference

We plan on running Camp Badger five times in 2010. All camp sessions start on Sunday afternoons and end the following Saturday mornings. Please indicate your first choice of camp session with a 1. If you don't get your first choice and would like to be considered for one of the other sessions, mark it with a 2 and so on. We will do our best to accommodate your preferences, however there are no guarantees.

- I wish to attend the June 20–26, 2010 Session
- I wish to attend the June 27–July 3, 2010 Session
- I wish to attend the July 11–17, 2010 Session
- I wish to attend the July 18–24, 2010 Session
- I wish to attend the July 25–31, 2010 Session
- No preference

Roommates: We randomly assign roommates on the boys' or girls' floor. Part of the camp experience is to meet new people (just like in college). Assigning two friends to be roommates significantly reduces the value of the week's experience. It is possible the camper may be placed in a single room.

Student/Parent Agreement

You are required to submit the following statement, signed and dated:

I am willing to abide by the conditions and regulations of the University of Wisconsin-Madison and the Camp Badger Exploring Engineering Program if I am selected to participate. I understand that failure to abide by the University's rules and regulations may result in my being sent home early.

Signature of Camper *Date*

Signature of Parent or Guardian *Date*

Student Essay

We would like to know more about you. Please type your answers to the following questions on one page:
What is the coolest or most fun thing you have done or learned in science? Tell us about it and discuss why you think this experience was special. What do you like and dislike about math and science?

Student Transcript

Please include a copy of the student's most recent school transcript record or report card.

Teacher Assessment for Financial Assistance Scholarship

Teacher/Guidance Counselor Name _____

A financial assistance scholarship for this camper is: ___Necessary ___Helpful ___Not Necessary

Signature _____ Date _____

School Name and Location _____

Phone Number _____

Student Application Checklist

- GENERAL INFORMATION filled out and signed by camper and parents/guardians
- CAMP BADGER SESSION PREFERENCE
- STUDENT/PARENT AGREEMENT signed and dated
- TEACHER/SCHOOL INFORMATION (filled out above)

Also attached:

- STUDENT ESSAY typed, double-spaced, one-page
- STUDENT TRANSCRIPT copy

Send application materials to:

Debbie Richardson: Camp Coordinator
Engineering Professional Development
432 North Lake Street, Room 707
Madison, WI 53706

Teacher (Math or Science) or Guidance Counselor Letter of Recommendation
(submit independently)

Please be sure as the student's teacher (or guidance counselor), your letter of recommendation reflects:

- the applicant's name and academic performance
- what you know of the student's interests and accomplishments in science and math
- any emotional or behavioral challenges that might affect the student having a successful time at camp
- whether financial assistance for this camper is necessary, helpful, or not necessary (required as scholarships are available for students in need)
- your school name, location, phone number
- your signature and date

All letters will be kept confidential!

Teachers may submit these materials by:

- email at campbadger@epd.engr.wisc.edu
- or mail to our office at:
Debbie Richardson: Camp Coordinator
Engineering Professional Development
432 North Lake Street, Room 707
Madison, WI 53706

**We look forward to meeting your student at
Camp Badger!**