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# UNIVERSITY OF

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# CONSIDER ENGINEERING

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**Take Advantage of a UNIQUE  
Opportunity for High School  
Juniors Who Excel in  
Math & Science**



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**July 10 - 13**  
**July 17 - 20**  
**July 24 - 27, 2011**

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## **Explore Your Career Options Expand Your Learning Abilities**

If you are a high school junior who is an excellent math and science student, we would like to interest you in a unique summer experience designed to help you expand your academic ability and explore the option of studying engineering when you go to college. For over 40 years more than 3,500 students have benefited from this program.

The Consider Engineering program is a challenging and rewarding opportunity to apply principles you have learned in high school to engineering problems. You will learn and have fun as one of 102 students who will be selected competitively to spend four days in Orono at the University of Maine with all program costs being paid by The University of Maine Pulp and Paper Foundation. The program will enroll students from throughout Maine and other states as well. It will build a base upon which to make college and career decisions.



Those who are chosen to participate in our Summer Consider Engineering program will benefit from a four-day, full campus experience by learning what engineers do. This experience will help students prepare for advanced education choices and for future career choices. In addition, students will meet new friends who operate and work at the same level. Many of these new friendships are maintained for a lifetime.

Jack Healy, Executive Director  
UMaine Pulp & Paper Foundation



## BENEFITS OF PARTICIPATING

- **MEET** college professors of engineering
- **FIND OUT** how engineering is similar and different from science
- **EXPLORE** the excitement of engineering design in a constructive competition
- **TOUR** a Maine paper manufacturing facility to see how wood is converted to pulp and then to paper by applying engineering methods
- **LEARN** what personal values are most important to you in making your career choice
- **ENJOY** working with other gifted students who, like you, are exploring their interests and capabilities
- **DISCUSS** engineering careers with practicing professionals
- **TALK** with UMaine engineering students about college and job experiences
- **DISCOVER** time management demands of college life while participating in challenging projects and fun activities with fellow participants
- **EXPERIENCE** four days of campus life

## Program Activities

The four-day program offers nearly two dozen activities balancing personal values exploration with engineering experiments, discussion with University staff, students and industrially employed engineers, and problem solving challenges. You can gain the satisfaction of succeeding at projects designed to stimulate your intuition and reason. Program participants work both independently and cooperatively to learn skills and then apply those skills to real life problems.

Students realize considerable personal satisfaction from meeting challenges greater than those they have typically experienced.

The Consider Engineering program allowed me to use my math and science skills and to become familiar with the UMaine campus while having fun. As an out-of-state student, I was able to establish connections with students and professors that made entering a college so far from home a little easier. The program not only made me feel that engineering is right for me, but also gave me the background information I needed to select a field. Excellent program!

*-a current Scholarship Recipient*





“The Pulp and Paper Consider Engineering Program was one of the main factors that led me to pursue a degree in Chemical Engineering at UMaine. The program gave me a chance to learn about all fields of engineering while performing hands on experiments and making lasting friendships. I was able to meet and work with some of the professors that I now encounter on a daily basis. I would definitely suggest the program to anyone that is considering the field of engineering.”

*-a current Scholarship Recipient*



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## Program Faculty

The faculty includes University of Maine professors and engineering graduate students. You will also meet current undergraduate engineering students as well as recent graduates from several engineering disciplines. You can ask them about their skills, job interests, co-op and internship experiences and engineering career opportunities.

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## Housing and Meals

Housing will be provided in University residence halls with two students sharing each room. Students will eat meals in a University dining hall beginning with Sunday dinner and ending with Wednesday breakfast. Parents are invited to join the students for lunch at the Soderberg Center at Jenness Hall on Wednesday at the close of the program.

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## Admission Criteria

Admission will be offered on a competitive basis to students who have completed a three-year college prep level program in both mathematics and science. Successful applicants also should demonstrate a well-rounded high school experience by participating in extra-curricular or community activities, and possessing exceptional communication and leadership skills. Include with your application a list of any honors received, such as National Honor Society, science fair winner, participant in local program for gifted and talented students, or some similar recognition earned as a high school student. Please use the attached application form. It must be returned by May 1, 2011. Admission decisions will be announced on or before May 31, 2011.

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The Consider Engineering program gives you an opportunity to experience what it would be like to be an engineering student. From lectures and labs to life in the dorms you'll get a real taste for college life. Students learn first-hand the challenge of trying to complete several group projects while also making new friends. Students walk away knowing if engineering is the right college major for them.

*-Professor Dave Neivandt  
UMaine Chemical & Biological Engineering*

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