

September 5, 2014



Greetings from the University of Alabama College of Engineering! It's the start of a new school year here at the Capstone, and with that comes crisp fall weather, a new freshman class, and E-Day, the College of Engineering's annual open house!

I'd like to take this opportunity to personally invite you and your students to join us for E-day on Thursday, October 2, 2014 from 8:15am-1pm. We'll be running demonstrations in each of our departments throughout the morning. As always, we will also provide prospective students, teachers, and counselors with helpful information on our College of Engineering as well as a free BBQ lunch.

Enclosed, please find a poster and postcard which you can display at your school and distribute as you see fit. This year, we have a pre-registration form available online at: <http://eng.ua.edu/undergraduate/e-day>. Please use this form to register large groups, and encourage individual students to register using this form as well.

We look forward to rolling out the "crimson" carpet for you and hope that you are able to join us for what is sure to be an exciting and beneficial day for you and your students.

Check-in will begin at 8:15 a.m. at the Science and Engineering Quad. Please visit our E-Day web page for driving and parking directions: <http://eng.ua.edu/undergraduate/e-day>.

We hope to see you on October 2nd!

Best regards,

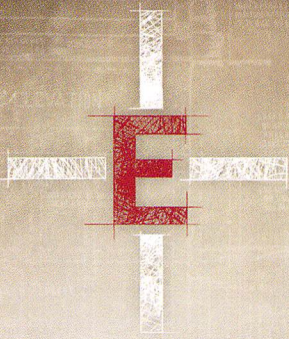
A handwritten signature in black ink that reads "Lynsey Dill". The signature is written in a cursive, flowing style.

Lynsey Dill
Coordinator of Student Recruitment
College of Engineering
University of Alabama
(205)348-2547
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EDAY
2 0 1 4

OCT. 2, 8:15 a.m. - 1 p.m.

ENGINEERING A NEW DIRECTION



THE UNIVERSITY OF ALABAMA
COLLEGE OF ENGINEERING

Box 870200

Tuscaloosa, AL 35487-0200

*The University of Alabama is an equal-opportunity educational
institution/employer. • MC 8687*

The College of Engineering will host an open house on Thursday Oct. 2, 2014, from 8:15 a.m. to 1:00 p.m. Join us to explore the rewarding opportunities available in engineering and computer science. Receive information about admissions, housing, financial aid, scholarships, honors programs and more. Please register online at eng.ua.edu/e-day by Sept. 25. Lunch will be provided.

For more information, call toll-free
800-369-ENGR or 205-348-1598.

eng.ua.edu/e-day

ENGINEERING A NEW DIRECTION



Department Descriptions

Aerospace Engineering and Mechanics

A degree in Aerospace Engineering takes a focus in each of the three main areas of aerospace engineering: aerodynamics, aircraft structures, and flight dynamics and controls. An aerospace education prides itself on being hands-on, culminating in the senior design project, a design-build-fly competition. Graduates have achieved successful careers in industry, education, the military, and government.

- Ballistics Lab
- Water Tunnel*
- Low/High Speed Wind Tunnels*
- Polariscope Lab
- Design, Build, Fly Project

Chemical and Biological Engineering

Today's world is full of challenges for those who want to help create better and safer products for the home and industry, to develop new resources of energy, to fight pollution, and to preserve our environment. Students graduating from Chemical and Biological Engineering pursue a number of high-impact careers including petroleum and energy, pharmaceuticals, polymers and chemicals, and process design. Many students continue on to medical or law school. Chemical engineers are always in demand due to their problem-solving skills, and they consistently receive the highest starting salaries.

- CO₂ Phase Change
- Liquid Nitrogen Ice Cream

Civil, Construction, and Environmental Engineering

Civil, construction, and environmental engineering supports and sustains us—literally. Civil engineers are dedicated to improving our daily lives through the buildings, bridges, roads, and innumerable other pieces of infrastructure that we walk in or on daily. Graduates from this program enter the work force in a variety of fields including transportation, structures, water resources, architectural engineering, construction engineering, and environmental engineering. The Department of Civil, Construction, and Environmental Engineering encourages you to become involved in an innovative program that will prepare you to have a great impact on the world in which we live.

- Earthquake Shake Test*
- Quick Sand Demonstration
- Laser Scanner*
- Traffic Camera Lab

Computer Science

Computer science is a multifaceted discipline that encompasses a broad range of topics. Computer Scientists deal with a wide range of problem solving, from the technical algorithms and theoretical capabilities of computers to the design and construction of usable software. Graduates of the program are prepared for admission to graduate study or for immediate employment in business, industry, or government positions involving computer systems and techniques. In May 2011, Computer Science graduates across the United States had more job offers than any other major, and they consistently rank among the top-five starting salaries.

- Robotics lab
- Portable data wall
- Android application development



Electrical and Computer Engineering

Electrical and Computer Engineering is the application of mathematics, sciences, and electrical and electronic technologies to the needs of society. This broad and diverse discipline touches almost every aspect of people's lives and occupations and includes power generation and distribution; electric machines and drives; communication systems such as cellular phones, radio, television, and the Internet; computer systems such as personal computers and the hidden processors that control automobiles and household appliances; robotics; sensor technologies; and advanced electronic materials and devices.

- Solar Energy Systems
- Energy Systems Power Converters and Devices
- Human Tracking and Recognition
- Wireless Video Communication

Mechanical Engineering

Mechanical Engineering involves the production and usage of heat and mechanical power for the design, production, and operation of machines, transportation vehicles, and tools. Mechanical Engineering appeals to students who are interested in applying their solid backgrounds in math and physical sciences to understand, design, test, and build real-world devices and processes for the improvement of society. Graduates often pursue careers in aerospace, automotive, energy and power generation and distribution, manufacturing, robotics, automation, heating/air-conditioning, construction, mining, and defense/military.

- Large-Scale Engines Lab
- BioRobotics Lab
- Intelligent Structures Lab
- Material Characterization Lab

Metallurgical and Materials Engineering

Virtually every component of any engineered structure is limited by the properties of the materials chosen for its fabrication. The selection, methods of production, treatment, and finishing of the materials involved in all aspects of systems of transportation, power generation, communication, entertainment, and housing depend on individuals trained in metallurgical and materials engineering. Exciting challenges exist today in the development and application of new materials, which range from the new generation of superconductors and ultra lightweight composites to new magnetic-recording media and sophisticated high-temperature alloys. Graduates of our department have distinguished themselves in many careers, holding a wide range of managerial, scientific, and engineering positions across the country in industry, government, and education.

- Space Shuttle Tiles
- Shape Memory Alloys and Smart Materials
- Material Phenomena that Led to the Titanic Disaster
- Superconductivity: Levitating magnet
- Central Analytical Facility: High-Powered Microscopes