DAY CAMPS

The weeklong K-12 summer day camps are designed to have campers experience engineering through hands-on, creative investigations and design activities.

ELEMENTARY SCHOOL

Grade levels
Rising 3rd through 5th

Past activities
Putty Products, Newspaper Chairs, Rocket Design

Locations
Charlotte, Hickory, Raleigh and Rocky Mount

MIDDLE SCHOOL

Grade levels
Rising 6th through 8th

Past activities
Rube Goldberg on the Wall, Squishy Circuits, Egg Nest Drops

Locations
Charlotte, Havelock, Hickory, Raleigh, Rocky Mount and Wilson

HIGH SCHOOL

Grade levels
Rising 9th and 10th

Past activities
Ionic Imprinting of Hydrogels, Water Consumption, Biomimicry Challenge

Locations
Charlotte, Havelock, Hickory, Raleigh, Rocky Mount and Wilson

RESIDENTIAL CAMPS

The discipline-specific residential camps at NC State are for rising 11th and 12th grade students. The camps allow students to explore engineering in depth through workshops and other activities and to experience college life. Engineering departments develop content for the workshops.

JOIN US NEXT YEAR

Open enrollment for day and residential camps is from January 5 through April 1. Visit go.ncsu.edu/espinfo for details, including acceptance criteria and fees.

CHALLENGE ACCEPTED

The National Academy of Engineering’s 14 Grand Challenges for Engineering in the 21st Century name some of the toughest problems for engineers to solve. The challenges are in the areas of sustainability, health, security and joy of living.

Integrated into the College’s undergraduate curriculum
Help shape summer camp activities to encourage students to think about their career goals early

DIVERSITY

Summer Programs celebrate diversity — the diversity of engineering disciplines and the diversity of students attending the camps.

Summer 2014

A middle school camp incorporating campers with hearing disabilities was held for the first time at the Eastern North Carolina School for the Deaf in Wilson
Summer Programs have partnered with the Salvation Army to bring homeless children into summer camps through scholarships, including this year’s camp in Raleigh

ENGINEERING IN THE CLASSROOM

Engineering activities challenge students to work with others to investigate and solve real-world problems.

Creative and fun way for students to experience the relevancy of science, math and social studies
Teachers hired for the summer camps in Raleigh and partner locations learn the benefits of engineering activities and take them back to their classrooms, grade levels and schools

PARTNER LOCATIONS

Summer Programs have established several partner locations in North Carolina and plan to increase those partnerships throughout the state. Summer camps are typically held in centers of higher learning to help students envision themselves attending a community college or university.

SUPPORT SUMMER PROGRAMS

Donations to Summer Programs can be made online at go.ncsu.edu/engineering-giving or by mail to the address below. Be sure to designate the Engineering Place and reference Summer Programs.

NC State Engineering Foundation
Campus Box 7901
College of Engineering
NC State University
Raleigh, NC 27695-7901

CHARLOTTE: Queens University
HAVELOCK: Craven Community College
HICKORY: The North Carolina Center for Engineering Technologies, Appalachian State University
RALEIGH: NC State
ROCKY MOUNT: ECU/NC State Gateway Collaborative Center, NC Wesleyan College
WILSON: Eastern North Carolina School for the Deaf