Computer scientists identify and solve computational problems in all areas of modern life. They use a combination of technical skills and creativity to design and build software, formulate solutions to computing problems and invent new algorithms and better ways of using computers. The discipline of computer science offers many challenging, interesting and socially meaningful careers that appeal to a diverse range of people. Computer scientists are not only employed by software companies, but also by health care companies, government agencies, educational institutions and more.
Pursuing Computer Science at UK
As a computer science major, you will be taught by professors who are recognized leaders in their respective fields, and are readily available both inside and outside the classroom to discuss course material, emerging topics of research and the computing profession. Our faculty members have expertise in computing foundations, algorithms, networking, systems, data mining, software engineering and artificial intelligence. Faculty members who recently joined our department bring additional strength in modern computer science topics such as machine learning, big data, mobile computing, security and cyber-physical systems.

Career Prospects in Computer Science
Worried about what you will do after graduation? Good news! According to the Bureau of Labor Statistics, computer occupations will constitute 57% of all job openings in STEM (science, technology, engineering and mathematics) fields from 2012-2022. The Bureau of Labor Statistics has also projected that employment of computer software engineers and computer programmers will increase much faster than the average for all occupations—around 24% between 2016 and 2026. Related occupations, such as information technology managers, have similar prospects for growth.

Undergraduate Research in Computer Science
Students are encouraged to excel through participation in summer research programs, workshops, programming, hackathon events, and undergraduate research opportunities with faculty in their labs. Some examples of projects students work on include artificial intelligence, bioinformatics, medical informatics, networking, natural language processing and computational research for humanities. Undergraduate research also provides students with breadth and depth, making them competitive for nationwide scholarships, recognition and careers.

Revised August 2019. Information subject to change. For the most up-to-date information on the UK College of Engineering, visit www.engr.uky.edu.