Bourns College of Engineering (BCOE)

We Engineer Excellence

For 25 years, UC Riverside’s Bourns College of Engineering (BCOE) has distinguished itself through faculty leadership, partnerships with industry and government, engagement with local and global communities, remarkable growth, and top-tier rankings. We are consistently positioned as the top-ranked public engineering college of our size in the country (U.S. News and World Report).

BCOE is dedicated to educating the next generation of engineering leaders to discover and apply groundbreaking solutions and innovations that improve the quality of life.

CAREER JOB OPPORTUNITIES

Students at the Bourns College of Engineering have had tremendous success in securing professional positions upon graduation:

- 89% BCOE students get employed or attended graduate school within 6 months after graduation (data is based on 2014 grads).

- Average Salaries (data is based on 2014 grads)
  - Undergrad: $59,429
  - Grad: $86,941

Among the many companies who have hired BCOE graduates, are:

- 3M
- ARCO
- Boeing
- Dupont
- ESRI
- Ford Motor Company
- General Motors
- Google
- Hewlett Packard
- IBM
- Intel
- Microsoft
- Raytheon
- Toyota
- Unisys
- Walt Disney
- Imagineering
- Xerox

RESEARCH

BCOE has several affiliated research centers that serve to attract funding, build expertise, and pursue research missions. In addition, Bourns Hall boasts nearly 200,000 square feet of laboratories and classrooms, and a $10 million nanofabrication clean room.

Transparent skull implants

A team of UCR researchers led by BCOE Professor of Mechanical Engineering Guillermo Aguilar have developed unique, ceramic-based transparent cranial implants that provide a permanent window through which doctors can perform laser-based procedures on the brain.

Next generation memory storage

Led by Jianlin Liu, UCR professor of electrical engineering (below), BCOE researchers have developed a novel way to build next generation memory storage devices for portable electronic devices including smart phones, tablets, laptops and digital cameras.

Clean battery power

Winston Chung, Chinese battery technology scientist, inventor and entrepreneur, has given $10 million to support clean battery power, solar energy and sustainable transportation research at BCOE. The first floor of UCR’s Winston Chung Hall is powered by one of the largest storage battery installations at a university in the world.
Established in 1992, the Center for Environmental Research & Technology (CE-CERT) has become a recognized leader in environmental education and a collaborator with industry and government to improve the technical basis for regulations and policy. Students who have worked at CE-CERT graduate with a set of skills that are desirable to employers and suitable for further academic pursuits.

FACULTY

Reza Abbaschian, Dean of the Bourns College of Engineering, has been named the Albert Sauveur Achievement Award for 2013 by ASM International.

Professor of Electrical Engineering and Founding Chair of the Materials Science and Engineering Program Alexander Balandin was awarded the 2013 Materials Research Society Medal for his work on the thermal properties of graphene and the development of a new materials characterization technique.

Professor of Bioengineering and Founding Chair of the Department of Bioengineering Jerome S. Schultz is a fellow of the American Chemical Society (ACS) and American Institute of Chemical Engineers (AIChE).

STUDENT TESTIMONIALS

“My most memorable experience at UCR was living in an engineering-themed hall (Enginuity Hall). It helped me to make a lot of friends in my college. And, because we are all engineering students, when it was time for midterms and finals… we would study together.” – Wei Zhong Tan (Patrick), Chemical Engineering

“Choosing UCR is a decision you will never regret. With so many programs, internships, scholarships, and research, there is always something going on. If you want a campus that is innovative, diverse and caring toward its students UCR is definitely a great fit.” – Derrion King, Junior, Mechanical Engineering

STUDENT SUCCESS

Materials Science and Engineering major Brian Weden, ’13, won the 2012 Institute of Materials, Minerals and Mining (IOM3) Young Persons’ World Lecture Competition.

“Team Inspiration” – a student team from UC Riverside – was one of only three finalists from the United States in Microsoft's Imagine Cup. The team designed “Trash Boy” - a game designed for mobile phones that allows players to protect fish by preventing trash from entering the ocean.

Majors

Bourns College of Engineering

- Bioengineering MP
- Business Informatics
- Chemical Engineering MP
- Computer Engineering M
- Computer Science MP
- Electrical Engineering MP
- Engineering Online M
- Environmental Engineering MP
- Materials Science and Engineering MP
- Mechanical Engineering MP

Combined B.S. plus M.S. five-year programs are offered in Bioengineering, Chemical Engineering, Computer Engineering, Computer Science, Electrical Engineering, Environmental Engineering, and Mechanical Engineering. A combined B.S. Computer Engineering plus M.S. Computer Science five-year program is also offered.

M = Masters Degree  P = Ph.D. Degree