ENGINEERING

What can you do with a PhD in Engineering?

Special High-Tech Research Positions Program Manager/Director of Engineering College/University Teaching and Research Consulting

Who might you work for?

State and Local Government Agencies Federal Government Professional, Scientific, and Technical Services Sector

Aerospace engineers design, develop, and test aircraft, spacecraft, and missiles and supervise the manufacture of these products.

Chemical engineers apply the principles of chemistry to solve problems involving the production or use of chemicals and biochemicals.

Civil engineers design and supervise the construction of roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage systems.

Electrical engineers design, develop, test, and supervise the manufacture of electrical equipment.

Industrial engineers determine the most effective ways to use the basic factors of production - people, machines, materials, information, and energy - to make a product or provide a service.

Mechanical engineers research, design, develop, manufacture, and test tools, engines, machines, and other mechanical devices.

What does CWU have to offer?

- The McNair Scholars Program
- The Science Talent Expansion Program (STEP), which focuses on increasing the total number of students obtaining STEM (Science, Technology, Engineering, and Mathematics) degrees at CWU and the number of traditionally underrepresented students in STEM under-graduate majors. STEP provides academic and social support as well as challenging and stimulating activities that help develop critical thinking and problem-solving skills that are essential for success in STEM careers.
- A Science Honors Program
- A student chapter of the Associated General Contractors of America (AGC)
- A student chapter of the National Association of Home Builders
- Sigma Lambda Chi: National honor society for Construction Management students
- Student Mentoring Program
- A student chapter of the American Society of Mechanical Engineers (ASME): <u>http://www.asme.org/</u>
- A student chapter of the Institute of Electrical and Electronic Engineers (IEEE): <u>http://www.ieee.org/</u>

Featured PhD Holders:

Henry Samueli PhD in Electrical Engineering, UC - Los Angeles

Co-Founder, Chairman and Chief Technology Officer of the BroadCom Corporation. Dr. Samueli is a major businessman and philanthropist, and is a named inventor on 22 U.S. patents.

Kristi S.Anseth PhD in Chemical Engineering, University of Colorado, Boulder

Dr. Anseth is a Howard Hughes Medical Institute Investigator, Tisone Professor and Distinguished Professor of Chemical and Biological Engineering at the U of Colorado, Boulder. She is a dedicated teacher, recognized on the national level for her excellence in teaching and research. She designs new biomaterials for medical and biological applications.

* From Making a Difference: A Selection of Graduate Degree Holders and Their Contributions to the Public Good. Council of Graduate Schools, 2008.