Industrial Engineering, BSE

Career Advancement

Industrial and systems engineers have many opportunities for employment and service in industrial, government, research, and public service organizations. Employment opportunities are among the most varied in the engineering field. Industrial and systems engineers hold positions as advisors to management or may participate directly in management decisions. Representative job titles include industrial engineer, manufacturing engineer, systems analyst, quality specialist, operations research analyst, internal consultant, human factors specialist, supervisor, and manager. Industrial and systems engineers are employed by manufacturing and energy firms, wind turbine manufacturers, government agencies, and service organizations such as airlines, banks, hospitals, health care groups, and consulting companies.

People are often surprised to learn the impact and breadth of the industrial engineering profession, which is one of the three largest areas of engineering employment, according to the Bureau of Labor Statistics. Yet, only 5% of all engineers are trained specifically for this specialty, according to the American Society for Engineering Educators (ASEE). It is one of the more gender-diverse engineering degrees: 34.1% of industrial engineering bachelor’s degrees are awarded to women, compared to 24% of all engineering bachelor’s degrees, according to the ASEE.

Engineering Career Services develops and promotes experiential education and professional opportunities for students in the College of Engineering. Professional staff coordinate the college’s co-op and internship program, engage in employer outreach, and provide opportunities for students to network with employers, including engineering career fairs and other programming related to career development.

Engineering Career Services offers individual advising and class presentations on résumé and cover letter preparation, job and internship search strategies, interviewing skills, job offer evaluation, and much more. Engineering Career Services partners with the Pomerantz Career Center to facilitate on-campus interviewing, postgraduation outcome collection, and the university’s online recruiting system, Handshake.