Industrial Engineering, B.S.E.

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, less than five percent of all engineers are trained specifically for this specialty, according to the American Society of Engineering Educators. It is one of the more gender diverse engineering degrees: 31.3 percent of industrial engineering degrees are awarded to women, compared to 21.7 percent of all engineering degrees.

Engineering Career Services offers individual advising and class presentations on résumé and cover letter preparation, job and internship search strategies, interviewing skills, and job offer evaluation and negotiation. In addition to equipping students with the tools they need to navigate their internship, co-op, or full-time job search, Engineering Career Services also 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 in meaningful ways, including an engineering career fair each semester and other programming related to career development.