

## What is Engineering?

### THE FOUNDATION FOR INNOVATING TECHNOLOGIES TO SOLVE THE WORLD'S PROBLEMS

**Engineers are the innovators of tomorrow**, creating products and solutions and contributing tangible value to society which improves quality of life. Majoring in engineering is a great investment in your future, opening opportunities to finding a rewarding and well-paying job with high earning potential. Success in a professional engineering career is built on a strong academic background that develops **analytical skills, creativity, innovation, and leadership**.

### PURSuing A CAREER IN ENGINEERING

#### A Universal Skill Set

An engineering education provides career flexibility, from technology to business and law. Even if you don't remain a practicing engineer for life, an engineering education will prepare you for leadership roles in organizations where you can make valuable contributions that change people's lives. Some of the country's top CEOs have undergraduate degrees in engineering - Larry Page/Google, Tim Cook/Apple, Mary Barra/General Motors, Jeff Bezos/Amazon, and Satya Nadella/Microsoft. According to one study, 33% of the companies listed on the S&P 500 stock market index are led by CEOs who hold engineering degrees.

#### High Paying Jobs

Engineers start their careers with high paying positions in virtually every industry. In a national study of the 50 highest paying college majors, engineers and computer scientists took the top seven spots in median salary over the first five years of their career.

#### Engineers Are In Demand

Fueled by the fast-paced advancement in high-technology products and services, there is an increasing demand for engineers in areas such as information technology/computer science, energy, medicine, and advanced manufacturing. According to CareerCast, in a list of the seven most in-demand jobs that pay over \$80,000, the top two professions were focused on Information Technology and Computer Science (Software).

#### At The Forefront Of Technology

Engineering disciplines are leading the charge when it comes to developing cutting-edge technologies - the Internet of Things (IoT), augmented/virtual reality, cybersecurity, drones/robotics, artificial intelligence & machine learning, 3D printing/manufacturing, sustainability, personalized healthcare, and logistics, among others. Engineers work with teams of diverse professionals, creating solutions to real-world challenges in society that improve our lives and enhance our nation's competitiveness.

### GATOR ENGINEERS SOLVE CHALLENGING PROBLEMS AND IMPACT THE WORLD

The **University of Florida (UF)**, the state's **Flagship university** as well as the state's most comprehensive public research university that's ranked #1 in Florida, is home to the **Herbert Wertheim College of Engineering, the #1 engineering college in the State of Florida**...come see how UF is Powering the New Engineer to Transform the Future.

## Herbert Wertheim College of Engineering

### POWERING THE NEW ENGINEER TO TRANSFORM THE FUTURE

In a world where technology and innovation are critical to almost every human endeavor, engineers serve as leaders, driving solutions for information technology, energy, security, healthcare, and sustainability.

**Gator Engineering, the #1 engineering college in the State of Florida**, is poised to lead the next era of technological revolution by preparing a generation of **engineers capable of solving global problems, and creating and commercializing the discoveries that will transform the way we live our lives**, and perhaps even 'us.'

### COLLEGE FACTS & FIGURES

- |              |  |            |   |
|--------------|--|------------|---|
| <b>#23</b>   | Ranking on U.S. News & World Report's list of "Top Public Undergraduate Engineering Programs" (2016) | <b>#3</b>  | UF's ranking on Forbes' list of "America's Best Value Colleges" (2016), with in-state tuition & fees of \$6,381, significantly lower than the national average of \$9,410 |
| <b>4.35</b>  | Average GPA of the incoming freshman class for Fall 2016 - average SAT score was 1924                | <b>16</b>  | Bachelor's degree programs offered through the college across nine departments & schools  |
| <b>9,805</b> | College enrollment, including over 6,900 undergraduates and over 2,850 graduate students             | <b>89%</b> | Of those students entering industry immediately following graduation, 89% had already accepted, were considering, or were waiting on one or more job offers               |

### WHAT MAKES A GATOR ENGINEER UNIQUE?

#### Technical & Diverse Skills

An engineering education that includes not only innovation, leadership, project management, and interdisciplinary research, but also problem solving, communication/working in teams, ethics, creativity, and resiliency - all of which are **lifelong learning** traits that enable success in any career.

#### Leaders in Society

A Gator Engineer is a contributor to both the economy and the global community - all while grounded in a **human-centered (focusing on the user experience) approach**.

#### Hands-On Learning

Undergraduate students can participate in **capstone design programs**, working in teams to design, test, and build products and improved processes - a truly hands-on/applied, and in some instances real-world, educational experience.