

# ELECTRICAL ENGINEERING, BS

Today, electrical engineering has applications in every aspect of our daily lives. Electrical engineers are responsible for creating a wide range of devices that are used regularly, such as mobile computing systems, semiconductor chips, wind, solar and fusion power generators, robotic actuators, MRI machines, X-ray scanners, electric vehicles, and avionics. They also work on developing the algorithms that enable these machines to function according to our needs. As an electrical engineering major, you will learn the fundamental principles behind the operation of these devices and systems. You will gain the skills to analyze and design them, as well as improve upon existing technology throughout your career. You can also specialize in emerging technologies such as semiconductor engineering (<https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering-bs/electrical-engineering-semiconductor-engineering-bs/>) or machine learning and data science (<https://guide.wisc.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering-bs/electrical-engineering-machine-learning-data-science-bs/>) and earn a named option on your transcript.