



---

# JOB OPTIONS FOR ENGINEERS WITHOUT A PROFESSIONAL ENGINEER (PE) LICENSE (ELECTRICAL AND CIVIL)

---

JULY, 2017

**Table of Contents**

<b>Introduction:</b>	<b>3</b>
<b>Potential Job Options without Engineering License</b>	<b>3</b>

## Introduction:

When you are in the process of working towards your FE or PE engineering license, it is important to find ways to work in the engineering industry, even without your FE or PE license. This information in this guide will give you an overview for alternative jobs that will provide you relevant engineering work experience and help you get familiar with U.S. engineering companies and systems.

Choosing to seek lower-level positions in engineering, under the direct supervision of a Professional Engineer (PE), can help meet longer-term licensing goals. It is an efficient use of time and money, as these jobs normally pay higher than secondary labor positions and your experience can be used towards your 4 years of qualifying experience. In this guide we focus on two main fields of engineering - Electrical and Civil.

## Overview:

1. According to the Bureau of Labor Statistics (BLS), **electrical engineers** work primarily in research and development industries, engineering services firms, manufacturing and the federal government. They generally work indoors, but they may have to visit sites to observe a problem or a piece of complex equipment. Manufacturing industries that employ electrical engineers include automotive, marine, railroad, aerospace, defense, consumer electronics, commercial construction, lighting, computers and components, telecommunications and traffic control. Government institutions that employ electrical engineers include transportation departments, national laboratories and the military.
2. **Civil engineering** is a broad field. Specialties include architectural, structural, transportation, traffic, water resources and geotechnical engineering. Environmental engineering is another specialty and it uses engineering principles to both protect the health of nature and people. Civil engineers may work for state or local governments or in the private sector at consulting or construction firms. Some civil engineers hold supervisory or administrative positions, while others pursue careers in design, construction or teaching.

## Potential Job Options without Engineering License

The table below represents a sample of jobs options in electrical and civil engineering. Internationally educated engineers can generally apply for these positions without a license. The level of education and the years of experience in your specific field impact how competitive you will be in your application to these roles.

<b>Electric Engineering</b>	<b>Civil Engineering</b>
Aerospace Engineering and Operations Technician	Assistant Civil Engineer
Air Traffic Controllers	Architectural Draftsman
Assembler and Fabricator	Assistant Construction Superintendent
Automotive Body and Glass Repairer	Assistant Surveyor
Automotive Service Technicians and Mechanic	Associate Civil Engineer
Drafter	CAD Designer / Technician
Electrical and Electronic Engineering Technician	Civil Engineering Technician
Electrical and Electronic Installer and Repairer	Commercial Construction Estimator
Electrical Designers	Concrete Estimator
Elevator Installer and Repairer	Construction and Building Inspector
Entry Level Electrical Engineering	Construction Equipment Operator
Fabricator	Construction Manager
General Maintenance and Repair Worker	Detailer/Drafter
Heavy Vehicle and Mobile Equipment Service Technician	Drywall and Ceiling Tile Installers, and Taper
HVAC Mechanic	Environmental Engineering Technician
Industrial Designers	Environmental science and protection technician
Industrial Engineering Technician	Estimator Building Construction
Instrument Technician	Geological and Petroleum Technicians
Machinists and Tool and Die Makers	Geotechnical Engineering
Mechanical Engineering Technician	Hydrologist
Nuclear Technicians	Interior Designer
Sheet Metal Workers	Project coordinator
Small Engine Mechanics	Project Manager
Technical Support Engineer	Superintendent
Telecommunications Equipment Installer and Repairer	Surveyor
	Surveying and Mapping Technician
	Water and wastewater treatment plant and system operator

**Note:** For more information about jobs you can do without a license check this website - <http://www.engineerjobs.com/>