

EARNINGS CONTINUED:

2000 Median Annual Earnings in the Industries that Employing the Largest Number of Electrical Engineers

Industry	Earnings
Computer & Office Equipment	\$69,700
Measuring & Controlling Devices	\$67,570
Search & Navigation Equipment	\$67,330
Electronic Components & Accessories	\$65,830
Engineering & Architectural Services	\$65,040



Electrical & Electronics Engineer



2000 Annual Earnings for Electronics Engineers (except computer)

	Earnings
Median	\$64,830
Middle 50%	Between \$52,430 & \$79,960
Lowest 10%	Less than \$43,070
Highest 10%	More than \$94,330

Sources

<http://www.bls.gov/oco/print/ocos031.htm>

<http://www.bls.gov/oco/print/ocos027.htm>



IS THIS A POSSIBLE CAREER FOR YOU?

NATURE OF WORK:

The occupation of electrical and electronic engineers consists of designing, developing, testing, and supervising the manufacture of electrical and electronic equipment. Such projects included in their job may involve working on electric utility systems, wiring in buildings, automobiles, radar and navigation equipment, and many more others. Electrical and electronic engineers work in a range of different industries within our economy.

QUALIFICATIONS NEEDED/ TRAINING/EDUCATION:

- Bachelor's degree required in engineering for almost all entry level jobs
- Strong solid background in mathematics and science
- Ability to be creative, inquisitive, analytical, and very detail oriented
- Communication skills a must, both verbally and orally
- Ability to work well in a team
- Graduate degree is required for a faculty positions teaching engineering classes, as well as for many research and development programs
- Receiving a Professional Engineer (PE) license to practice as an Engineer, is required for all engineers who offer their services directly to the public, throughout all of the 50 States and the District of Columbia

- Requires a degree from an ABET-accredited engineering program
 - 4 years of relevant work experience
 - Must successfully pass a State examination
- Entails two stages of completion
1. Initial Fundamentals of Engineering (FE) examination
 - * After passing, engineers are then called Engineers in Training (EIT) or Engineer Interns (EI)
 - * Valid for 10 years
 2. After acquiring suitable work experience, a second examination is required, the Principles and Practice of Engineering Exam
- Several States require mandatory continuing education classes in order to retain one's license
- Continuing education is important for electrical and electronics engineers because of the rapid advancement of technology.

JOB OUTLOOK:

Employment for electrical and electronics engineers looks as though it is going to be very favorable for those with this expertise. Through 2010, employment is expected to grow about as fast as the average for all occupations. Employers that generally hire electrical and electronics engineers include governmental agencies, business-consulting firms, and manufacturers of electrical and electronics products. Such consulting firms handle issues of various

types including: transportation, communications, and utilities, just to name a few.

GEOGRAPHICAL AREAS OF EMPLOYMENT:

Employment for electrical and electronics engineers can be found all throughout the United States. However, some states such as California, Texas, New York, and New Jersey, house the majority of large electronic firms and they employ nearly one-third of all of these engineers.

EARNINGS:

2000 Annual Earnings for Electrical Engineers

	Earnings
Median	\$64,910
Middle 50%	Between \$51,700 & \$80,600
Lowest 10%	Less than \$41,740
Highest 10%	More than \$94,490