

My Career Project

Career Flow

Biomedical Engineer

Job Description: In this job you must apply your knowledge of engineering, biology, biomedical principles to the design. You will have to develop devices and procedures that solve medical and health related problems. You may do research with life scientists, chemists, and medical scientists, to develop and evaluate systems and products such as artificial organs. Biomedical Engineers may also design devices used in various medical procedures.

Education: A bachelor's degree in engineering is required for almost all entry-level engineering jobs. College graduates with a degree in a natural science or mathematics occasionally may qualify for some engineering jobs, especially in specialties in high demand. Most engineering degrees are granted in electrical, electronics, mechanical, or civil engineering. However, engineers trained in one branch may work in related branches.

Salary: The hourly wage for the average person is \$35.54 the annually wage is \$73,930. The highest paid person gets paid \$55.93 an hour and \$116,330 annually.

Job Outlook: For biomedical engineers they are expected to have a

21% growth. Right now they have 14,000 employees and by 2016 they hope to have employed 17,000 people which is a 3,000 person jump.

Other Information: Starting salaries are among the highest of all college graduates. Continuing education is critical for engineers as technology evolves.

Petroleum Engineer

Description of the Job: In this job you need to be able to change your work fast. You need to be able to develop new ways of extracting resources from existing resources. You will devise methods to improve oil and gas well production and determine the need for new or modified tool designs. You will oversee drilling and offer technical advice to achieve economical and satisfactory progress. You would be working in different countries.

Education: You need a bachelor's degree in engineering. College graduates with a degree in natural science or mathematics occasionally may qualify. For the math classes you need to go all the way up to calculus. Then in science you have to go up to Physics. You also need courses in English, Social Studies, and humanities.

Salary: Hourly wage: \$47.30*

Annual wage: \$98,380*

* Average person

Job Outlook: This job only has about a 5 percent employment growth. But in the next couple of years this may



go up because new job opportunities will be made due to the high demand gas prices. By 2016 they predict that they will have 16,000

employees working in just this field.

Other Important

Information: The highest paid person makes \$ 59.20 an hour and \$123,130 annually. Right now there are only 15,000 employees that work in this field.

Geoscientist

Description of the Job:

Geoscientists study the composition, structure, and other physical aspects of the earth. As a geoscientist you will study the earth's geologic past and present by using sophisticated instruments to analyze the composition of earth, rock, and water.

Education: A bachelor's degree is adequate for a few entry-level positions, but most geoscientists need a master's

degree in geology or earth science. But a master's degree is the preferred educational requirement for most entry-level research positions in private industry, Federal agencies, and State geological surveys.

Salary: Median annual earnings of geoscientists were \$72,660 in May 2006. The middle 50 percent earned between \$51,860 and \$100,650; the lowest 10 percent earned less than \$39,740, the highest 10 percent more than \$135,950.



Job

Outlook: Employment growth of 22 percent for geoscientists is expected between 2006 and 2016, much faster than average for all occupations. The need for energy, environmental protection, and responsible land and water management will spur employment demand.

Other Important

Information: Work at remote field sites is common. Federal, State, and local governments employ 18 percent of all geoscientists. Employers prefer applicants with a master's degree for most positions; a Ph.D. degree is required for most high-level research and college teaching positions. Excellent job opportunities are expected for graduates with a master's degree.

Bibliography

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