

Biomedical Engineer



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85620

Average per year



40

Hours per week



21300

Employment 2017



22800

Biomedical Engineer

Designing systems and products such as artificial organ and devices that replaces body parts and also develop machines for diagnosing medical problems.

Outlook

Stable - The growth outlook for this profession seems to be stable positive.

AI Redundancy Threat

Moderate- This profession seems to be moderately impacted by the automation and AI threat. The jobs related to this profession may gradually get redefined and not entirely disappear. You will require to evaluate if the skill sets valued in this profession.

Subjects



Information and Communications Technology



Languages



Sciences



Mathematics

Abilities



Scientific Reasoning



Logical Reasoning



Social Ability

Activities

The tasks a Bio-medical Engineer is expected to perform include:

- Conducting research into biological aspects of humans or other animals to develop new theories and facts, or testing, proving, or modifying known theories of life systems, and Designing life - support apparatus, utilising principles of engineering and bio-behavioural sciences
- Planning and conducting research concerning behavioural, biological, psychological, or other life systems
- Studying engineering aspects of bio-behavioural systems of humans, utilising knowledge of electrical, mechanical, chemical, or other engineering principles and knowledge of human anatomy and physiology
- Developing mathematical models to simulate human bio-behavioural systems in order to obtain data for measuring or controlling life processes, utilising knowledge of computer, graphics, and other related technologies
- Designing and developing instruments and devices, such as artificial organs, cardiac pacemakers, or ultrasonic imaging devices, to assist medical or other health-care personnel in observing, repairing, or treating physical ailments or deformities

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- Specialising in design and development of biomedical equipment used by medical faculties and being known as Clinical Engineer

Work Place

- It is a field job
- Need not handle a team
- Local travelling is not a part of this job
- Part-time work and contractual jobs are available in some cities
- Work from home option is not available

Skills

- Knowledge of designing systems and products, such as artificial internal organs, artificial devices that replace body parts, and machines for diagnosing medical problems
- Ability to Install, adjust, maintain, repair, or provide technical support for biomedical equipment
- Well-versed in evaluating the safety, efficiency, and effectiveness of biomedical equipment
- Proficient in analysing and designing solutions to problems in biology and medicine

Personality

- Exceptional communicator
- Strong interpersonal skills
- Analytical skills
- Mathematical skills
- Research and problem solving skills

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- Attention to detail
 - Analytical skills
 - Technical abilities

Education

Sophomore 10th Grade

Senior 12th Grade

Senior Year in biomedical engineering or bioengineering

Created with Highcharts 4.2.5Note : Level of education attained by people currently working in this career
High SchoolJunior CollegeBachelorsDegreeMastersPhD01020304050

Certifications



Licensing

Principle and Practice of Engineering - NCEES <https://ncees.org/engineering/pe/>

Experience

None

Growth Path

- Curated data unavailable. Will be provided as soon as possible

Salary Range

51,050 - 134,620

Apprenticeships

<https://www.dol.gov/apprenticeship/>

<https://www.bls.gov/jobs/student.htm>

General Information And Links

<https://www.bls.gov/iag/tgs/iag65.htm>

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