Different types of engineers

what is the meaning of engineer ?

A person whose job is design, build or repair

Engines, machines, ect .

Different types of engineers

The different types of engineers are :~

* Aerospace Engineering
* Civil Engineering
* Mechanical Engineering
* Chemical Engineering
* Electrical Engineering
* Environmental Engineering
* Computer Engineering
* Biomedical Engineering
* Agricultural Engineering
* Textile Engineering
* Automobile Engineering
* Structural Engineering
* Software Engineering
* Chemical Engineering
* Mining Engineering

Aerospace Engineering

Aerospace engineering combines an understanding of **fluid dynamics, robust but lightweight materials and the chemistry and thermodynamics of engines**.

*Aerospace engineering is a trade that applies engineering science in the development and study of aircraft, spacecraft and their related technologies. It is one of the most important branches of engineering and has helped humankind to dominate the skies and space above.*

*The challenge of triumphing flight was a grueling one where we saw no success for a large period. That changed in 1903 with the Wright brothers*.

**Civil Engineering**

[**Civil engineering involves designing and building large projects**](https://www.bing.com/ck/a?!&&p=79aeb48f35dba879JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5Mg&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLWNpdmlsLWVuZ2luZWVyaW5nLTQ1ODI0ODg&ntb=1)[**1**](https://www.bing.com/ck/a?!&&p=a82472bba19d458cJmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5Mw&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLWNpdmlsLWVuZ2luZWVyaW5nLTQ1ODI0ODg&ntb=1). [Civil engineers use a wide range of technical design, reasoning, communication and management abilities to complete projects like bridges, roads, airports, highways and waterways](https://www.bing.com/ck/a?!&&p=c7484532f6b02bb4JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5NA&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly93d3cuaW5kZWVkLmNvbS9jYXJlZXItYWR2aWNlL3Jlc3VtZXMtY292ZXItbGV0dGVycy9jaXZpbC1lbmdpbmVlci1za2lsbHM&ntb=1)[**2**](https://www.bing.com/ck/a?!&&p=37b42274c17190e9JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5NQ&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly93d3cuaW5kZWVkLmNvbS9jYXJlZXItYWR2aWNlL3Jlc3VtZXMtY292ZXItbGV0dGVycy9jaXZpbC1lbmdpbmVlci1za2lsbHM&ntb=1). [They analyse data, develop and test new designs, and review blueprints and construction plans](https://www.bing.com/ck/a?!&&p=0276daebf52be114JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5Ng&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly9pbi5pbmRlZWQuY29tL2NhcmVlci1hZHZpY2UvZmluZGluZy1hLWpvYi93aGF0LWRvLWNpdmlsLWVuZ2luZWVycy1kbw&ntb=1)[**3**](https://www.bing.com/ck/a?!&&p=e05f98370ecaff4fJmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5Nw&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly9pbi5pbmRlZWQuY29tL2NhcmVlci1hZHZpY2UvZmluZGluZy1hLWpvYi93aGF0LWRvLWNpdmlsLWVuZ2luZWVycy1kbw&ntb=1). [Civil engineering draws heavily upon math and physics, but design, economics, and materials science are also important](https://www.bing.com/ck/a?!&&p=171bdd32fbbba6e5JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk5OA&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=civil+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLWNpdmlsLWVuZ2luZWVyaW5nLTQ1ODI0ODg&ntb=1).

**CIVIL**

**ENGINEERING**

Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canal, dams, airports, sewage systems, pipelines, structural components of building, and railways.

Chemical Engineering

Chemical Engineering, the **development of processes and the design and operation of plants in which materials undergo changes in their physical or chemical state. Applied throughout the process industries, it is founded on the principles of chemistry, physics, and mathematics.**

Chemical Engineering involves the production

and manufacturing of products through chemical

processes.

**Mechanical Engineering**

[Mechanical engineering is a field that **draws heavily upon math and physics**](https://www.bing.com/ck/a?!&&p=1d44531b2ceb94f1JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk3OQ&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=mechanical+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLW1lY2hhbmljYWwtZW5naW5lZXJpbmctNDE3Nzg2Nw&ntb=1). [It requires strong computing and problem-solving skills](https://www.bing.com/ck/a?!&&p=8473b9ce97a4988dJmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk4MQ&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=mechanical+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLW1lY2hhbmljYWwtZW5naW5lZXJpbmctNDE3Nzg2Nw&ntb=1). [Mechanical engineering has more college majors and working professionals than any other engineering field](https://www.bing.com/ck/a?!&&p=fcd09e054e43a0e3JmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk4Mw&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=mechanical+engineering+features&u=a1aHR0cHM6Ly93d3cudGhvdWdodGNvLmNvbS93aGF0LWlzLW1lY2hhbmljYWwtZW5naW5lZXJpbmctNDE3Nzg2Nw&ntb=1). [**Features of mechanical engineering include**](https://www.bing.com/ck/a?!&&p=414e0af8de83014eJmltdHM9MTcxNTkwNDAwMCZpZ3VpZD0zMGUyZWRhMi1iZGU5LTZiZGYtMTJhZS1mZDU5YmM1NjZhMTQmaW5zaWQ9NTk4NQ&ptn=3&ver=2&hsh=3&fclid=30e2eda2-bde9-6bdf-12ae-fd59bc566a14&psq=mechanical+engineering+features&u=a1aHR0cHM6Ly93d3cuaW5kZWVkLmNvbS9jYXJlZXItYWR2aWNlL2ZpbmRpbmctYS1qb2IvcHJvcy1jb25zLW9mLWJlaW5nLW1lY2hhbmljYWwtZW5naW5lZXI&ntb=1):

* Designing and developing machines and equipment
* Making drawings of mechanical parts and products
* Organizing and directing the building of machines and equipment
* Determining solutions to mechanical problems, like new ways to move objects and build more efficient vehicles

**Mechanical Engineering is one of the broadest**

**Engineering categories and involves the research,**

**Design, construction.**

**Biomedical Engineering**

* Biomedical engineering draws upon many fields including biology, chemistry, physics, mechanical engineering, electrical engineering, and materials science.
* Biomedical engineers can work for hospitals, universities, pharmaceutical companies, and private manufacturing companies.
* The field is diverse, and research specialties range from large full-body imaging equipment to injectable nanorobots.

**Biomedical engineering are concerned with the**

**Design of system, equipment and devices for use**

**Biomedical engineering combine mechanical**

**Engineering with the human body.**

**Environmental engineering**

**Environmental engineering** is a professional [engineering](https://en.wikipedia.org/wiki/Engineering) [discipline](https://en.wikipedia.org/wiki/Academic_discipline) related to [environmental science](https://en.wikipedia.org/wiki/Environmental_science). It encompasses broad [scientific](https://en.wikipedia.org/wiki/Science) topics like [chemistry](https://en.wikipedia.org/wiki/Chemistry), [biology](https://en.wikipedia.org/wiki/Biology), [ecology](https://en.wikipedia.org/wiki/Ecology), [geology](https://en.wikipedia.org/wiki/Geology), [hydraulics](https://en.wikipedia.org/wiki/Hydraulics), [hydrology](https://en.wikipedia.org/wiki/Hydrology), [microbiology](https://en.wikipedia.org/wiki/Microbiology), and [mathematics](https://en.wikipedia.org/wiki/Mathematics) to create solutions that will protect and also improve the health of living organisms and improve the quality of the environment.[[1]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:0-1)[[2]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-Bureau_of_Labor_Statistics,_U.S._Department_of_Labor.U.S._Department_of_Labor,_Occupational_Outlook_Handbook,_2010-11_Edition-2) Environmental engineering is a sub-discipline of [civil engineering](https://en.wikipedia.org/wiki/Civil_engineering) and [chemical engineering](https://en.wikipedia.org/wiki/Chemical_engineering). While on the part of civil engineering, the Environmental Engineering is focused mainly on [Sanitary Engineering](https://en.wikipedia.org/wiki/Sanitary_Engineering).[[3]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-3)

Environmental engineering applies scientific and engineering principles to improve and maintain the environment to protect human health, protect nature's beneficial ecosystems, and improve environmental-related enhancement of the quality of human life.[[1]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:0-1) Environmental engineers devise solutions for [wastewater management](https://en.wikipedia.org/wiki/Waste_management), [water](https://en.wikipedia.org/wiki/Water_pollution) and [air pollution](https://en.wikipedia.org/wiki/Air_pollution) control, [recycling](https://en.wikipedia.org/wiki/Recycling), [waste disposal](https://en.wikipedia.org/wiki/Waste_disposal), and [public health](https://en.wikipedia.org/wiki/Public_health).[[2]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-Bureau_of_Labor_Statistics,_U.S._Department_of_Labor.U.S._Department_of_Labor,_Occupational_Outlook_Handbook,_2010-11_Edition-2)[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4) They design [municipal water supply](https://en.wikipedia.org/wiki/Water_purification) and [industrial wastewater treatment](https://en.wikipedia.org/wiki/Industrial_wastewater_treatment) systems,[[5]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-5)[[6]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-6) and design plans to prevent [waterborne diseases](https://en.wikipedia.org/wiki/Waterborne_diseases) and improve sanitation in urban, rural and recreational areas. They evaluate hazardous-[waste management](https://en.wikipedia.org/wiki/Waste_management) systems to evaluate the severity of such hazards, advise on treatment and containment, and develop regulations to prevent mishaps. They implement [environmental engineering law](https://en.wikipedia.org/wiki/Environmental_engineering_law), as in assessing the environmental impact of proposed construction projects.

Environmental engineering is a name for work that has been done since early civilizations, as people learned to modify and control the environmental conditions to meet needs.[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4)[[14]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:2-14) As people recognized that their health was related to the [quality of their environment](https://en.wikipedia.org/wiki/Environmental_quality), they built systems to improve[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4) it. The ancient [Indus Valley Civilization](https://en.wikipedia.org/wiki/Indus_Valley_civilisation) (3300 B.C.E. to 1300 B.C.E.) had advanced control over their [water resources](https://en.wikipedia.org/wiki/Water_resources).[[14]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:2-14) The public work structures found at various sites in the area include wells, public baths, water storage tanks, a drinking water system, and a city-wide sewage collection system.[[14]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:2-14)[[15]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-15) They also had an early canal [irrigation system](https://en.wikipedia.org/wiki/Irrigation) enabling large-scale agriculture.[[16]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-16)

From 4000 to 2000 B.C.E., many civilizations had drainage systems and some had sanitation facilities, including the [Mesopotamian Empire](https://en.wikipedia.org/wiki/Mesopotamia), [Mohenjo-Daro](https://en.wikipedia.org/wiki/Mohenjo-daro), Egypt, Crete, and the [Orkney Islands](https://en.wikipedia.org/wiki/Orkney) in Scotland.[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4) The Greeks also had aqueducts and sewer systems that used rain and wastewater to irrigate and fertilize fields.[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4)

The first [aqueduct](https://en.wikipedia.org/wiki/Roman_aqueduct) in Rome was constructed in 312 B.C.E., and the Romans continued to construct [aqueducts](https://en.wikipedia.org/wiki/Roman_aqueduct) for irrigation and safe urban water supply during droughts.[[4]](https://en.wikipedia.org/wiki/Environmental_engineering#cite_note-:1-4) They also built an underground sewer system as early as the 7th century B.C.E. that fed into the Tiber River, draining marshes to create farmland as well as removing sewage from the city.

**Computer engineering**

* What is computer engineering?

Computer engineering is a branch of computer science and electrical engineering. This field of study combines several disciplines to design and develop software and hardware systems. You can learn more about computer engineering and how to become a computer engineer in the following article.

**Computer**

**Engineering**

### What's the difference between computer science and computer engineering?

Although computer science and computer engineering are closely related, they have a few key differences. Both require critical thinking, problem-solving and communication skills, and technical expertise. However, **computer scientists** focus more on theorizing and developing ways to use software to solve real-world problems. They must be able to work with programming languages such as [Python and Java](https://www.coursera.org/articles/python-vs-java).

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**Agricultural Engineering**

**Agricultural engineering**, also known as **agricultural and biosystems engineering**, is the field of study and application of [engineering](https://en.wikipedia.org/wiki/Engineering) science and designs principles for [agriculture](https://en.wikipedia.org/wiki/Agriculture) purposes, combining the various disciplines of [mechanical](https://en.wikipedia.org/wiki/Mechanical_engineering), [civil](https://en.wikipedia.org/wiki/Civil_engineering), [electrical](https://en.wikipedia.org/wiki/Electrical_engineering), [food science](https://en.wikipedia.org/wiki/Food_science), [environmental](https://en.wikipedia.org/wiki/Environmental_engineering), [software](https://en.wikipedia.org/wiki/Software_engineering), and [chemical engineering](https://en.wikipedia.org/wiki/Chemical_engineering) to improve the efficiency of [farms](https://en.wikipedia.org/wiki/Farm) and [agribusiness enterprises](https://en.wikipedia.org/wiki/Agribusiness)[[1]](https://en.wikipedia.org/wiki/Agricultural_engineering#cite_note-:0-1) as well as to ensure sustainability of natural and renewable resources.[[2]](https://en.wikipedia.org/wiki/Agricultural_engineering#cite_note-2)

An agricultural engineer is an [engineer](https://en.wikipedia.org/wiki/Engineer) with an [agriculture](https://en.wikipedia.org/wiki/Agriculturist) background. Agricultural engineers make the engineering designs and plans in an agricultural project, usually in partnership with an [agriculturist](https://en.wikipedia.org/wiki/Agriculturist) who is more proficient in [farming](https://en.wikipedia.org/wiki/Agriculture) and [agricultural scienc](https://en.wikipedia.org/wiki/Agricultural_science)e.

Agricultural engineers looks for solutions to problems involving

The use of plants, animals and the natural environment.

Software Engineering

Software Engineering is a subdomain of Engineering in which you learn to develop, design, test, and maintain software using a systematic and structured approach. Software is a collection of programs. And that programs are developed by software engineers. The code of a program is written in any of various programming languages like C++, Java, Python, Django, etc.

In this Software Engineering Tutorial, you will learn all the basic to advanced concepts, like Software Engineering Models and Architecture, Software development life cycle, software project management, software metrics, software requirements, etc. This software engineering tutorial is best suited for students and aspiring software engineers, providing a deep understanding of many different aspects of software engineering.

***Software Engineering is the process of designing, developing, testing, and maintaining software. It is a systematic and disciplined approach to software development that aims to create high-quality, reliable, and maintainable software. Software engineering includes a variety of techniques, tools, and methodologies, including requirements analysis, design, testing, and maintenance.***