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The field of science and technology is one of the largest and fastest growing professional fields. In addition, jobs in science and technology are generally very well paid, so degrees in this academic discipline are popular. If you are interested in running a training program that is sure to be intriguing as it is useful, then read to learn more about the different levels and types of science and engineering degrees there are to choose from. Associate Degrees in Science and Engineering Review Associate Degree in Science and Technology is the most basic level of post-secondary education possible to achieve in this field. Associate degree programs in engineering/science are usually two-year offers that require about 60 credit hours of coursework. Programs are readily available at universities and even junior and community colleges. There are different types of science and technology associate degrees available. Некоторые из этих вариантов перечислены ниже: Типы associate в инженерии и научных степенях Associate науки в технологии инженеров AS в биомедицинской инженерии Associate в человеческой биологии Associate инженерных наук AS в химии AS в экологических исследованиях Associate of Science in Computer Science AS in Mechanical Engineering Technology Associate Electronic Engineering Science and Engineering Associate Degrees: Curriculum Like most associate degree programs, ассоциированные в области науки и инженерии включают в себя общий образовательный компонент в дополнение к основному классам. This component covers the main topics at the college level in mathematics, science and the humanities and easily switches to undergraduate programs. While general education and core courses will vary from program to program, we have listed a few examples below for reference. They are taken from an actual associate in engineering and science degree programs. Associated Science/Engineering Curriculum: An Example of a Course Titled computer organization Introduction to Engineering Mechanics, Wave Motion, and Thermodynamics Engineering Computer Applications and Material Mechanics Design Introduction to Physical Fitness and Wellness General Microbiology Organic Chemistry Introduction to Computer Information Systems Introduction to Environmental Science Environmental Ethics of Electricity, Magnetism, and Light Signal Processing Microprocessor Interfacing Associate in Science and Engineering: Jobs requiring a simple associate degree in science and technology are limited. Below, you'll find some of these positions along with their average annual salary, according to the Bureau of Labor Statistics (BLS): Nuclear Engineering: \$80,370 Aerospace Engineering and Operations Technicians: \$67,240 Electrical and Electronics Technicians: \$63,660 Forensic Technicians: \$57,850 Technicians: \$56,740 Mechanical Engineering Technicians: \$55,360 Industrial Engineering Technicians: \$54,280 Geological and Petroleum Engineering: \$54,190 Civil Engineering: \$51.6 20 Environmental Engineering Technicians: \$50,230 Chemical Technicians: \$47,280 Environmental Science and Technicians Protection: \$45,490 Agriculture and Food Science Technicians: \$39,910 Interested in Conducting Accelerated Online Associate Degree? Check out our ranking of the fastest online associate degree programs! A Bachelor in Engineering and Science Review of Science and Engineering Bachelor's degree programs are four-year offers that require about 120 credit hours of coursework. Many students enroll in these undergraduate programs immediately after high school. Others earn an associate in science/technology before moving to a bachelor's program. Science and engineering is a broad area, so there are many types of bachelor's degree available, some of which we listed below: Types of Engineering/Science Bachelor of Science Bachelor of Science (BS) in BS Engineering in Computer Science and BS Engineering in BS in Cybersecurity Engineering BS in Materials Science and BS Engineering in BS Computer Engineering in BS Architectural and Construction Engineering BS in Industrial and Systems Engineering BS in Science Data Science science and engineering bachelor's programs: The curriculum for science/engineering bachelor's degree program is two directions in being that it will include both general training courses and basic specific classes. No two training programs in this area will be exactly the same though. In fact, since there are many different types of degrees available (such as the ones listed above), classes can vary widely. Thus, the sample course names we list below are only available for reference and may or may not reflect the types of classes you will see in your chosen undergraduate and natural sciences program. Bachelor of Science/Engineering Training Programs: Sample Course Names Introduction to Computing for Project Management Engineers for Engineering Systems Electromagnetic Fields and Signal Optics and Systems of Environmental Science and Sustainability Principles programming Languages Science Solid Materials Differential Equations for Science and Engineering Materials Processing Basics Engineering Graphics and Computer Network Design and Communication Technologies Building Materials and Techniques of Engineering Structural Analysis of Semiconductor Devices and Electronics Introduction to the Computer Organization's Engineering Physics Applied Materials Technology Engineering and Science Bachelor's Degree: Jobs and Wage Degree Programs in Science and Technology are popular because they meet the minimum educational requirements for most jobs, available in this area. Below you some of these professions along with their average average wages, according to the Bureau of Labor Statistics (BLS): Petroleum Engineers: \$132,280 Computer Hardware Engineers: \$115,120 Aerospace Engineers: \$113,030 Chemical Engineers: \$102,160 Electrical and Electronics Engineers: \$97,970 Materials Engineers: \$94,610 Mining and Geological Engineers: \$94,240 Atmospheric Scientists: \$92,070 Geoscientists: \$89,850 Health and Safety Engineers: \$88,510 Biomedical Engineers: \$88,040 Environmental Engineers: \$86,800 Mechanical Engineers: \$85,880 Hydrologists: \$79,990 Geographers: \$76,860 Chemists and Materials Scientists : \$76,280 Agricultural Engineers: \$74,780 Microbiologists: \$69,960 Environmental Scientists and Specialists: \$69,400 Agricultural and Food Scientists: \$62,910 Zoologists and Wildlife Biologists: \$62,290 Conservation Scientists and Foresters: \$60,970 Biological Technicians: \$43,800 Although the information above may give you an idea of what you can expect to make with a bachelor's in science and engineering, there are many factors that will affect your pay such as your specific degree, employer and position. Master of Science and Engineering Review Master's in Science and Technology are advanced degrees that require approximately two years of coursework for a bachelor's degree. These programs are highly specialized and allow students to become experts in this field and to take high-paying leadership positions. There are many different types of science and engineering master's degrees available, including (but not limited to) listed below: Types of Science and Engineering Master's Degree in Materials Science MS in Electrical engineering and computer engineering master of science in computer engineering Master of Computer Science Master Science in Mechanical Engineering Master engineering in bioengineering MS Industrial Engineering MS Aerospace Engineering MS A: Curriculum classes, including a curriculum for engineering and science master's programs, are usually very involved and academically rigorous. Most classes will contain a research component, and you may be asked to write scientific papers as well. The course names listed below are provided as an example. The classes that you will take in your chosen engineering and science master's program will vary. Engineering and Science Master's Training Program: An Example Course Title of Cloud Computing Concept Theory and Practice of Data Cleaning Materials Structure and Characteristics of Engineering Energy Policy Changing Chemical Processing Electronic Materials The Ultimate Element Techniques in Structural Engineering Introduction to Wireless Network Computer Performance Models Advanced Engineering Analysis of Transport Kinetics and Transformations in Advanced Electrochemicine Techniques Introduction to Computing Thinking and Theory of Science Materials Processes Systems Engineering Systems Simulation and Modeling Systems Science/Engineering Master's Degrees: Jobs and Salary Professionals who receive a master's degree in engineering and science can earn more in their current positions or move to positions with additional and/or leadership responsibilities. Payscale.com reports that those with a master's degree in engineering earn about \$89,000 a year on average. Of course, your exact salary will depend on the degree of degree you hold, your employer, and your position among other factors. Some specific occupations along with average salary listed below: Vice President of Engineering: \$173,514 Engineer: \$149,043 Senior Chief Engineer: \$146,422 Chief Engineer: \$138,001 Senior Engineering Manager: \$134,681 Chief Systems Engineer: \$125,7 28 Engineering Program Manager: \$115,832 Senior Systems Engineer: \$105,027 Senior Engineer Project: \$100,334 Senior Electrical Engineer: \$105,027 Engineering Project Manager: \$96,052 Doctoral Program in Science and Engineering Review Higher Degree Can Earn in This Field is a PhD in Science and Technology. Depending on the type of doctoral degree one chooses to pursue, these programs can be rooted in theory or they can emphasize the practical application of skills and knowledge in the subject area. Some of the Science/Engineering Doctoral Types listed below: PhD types in Science/Engineer Ph.D. Ph.D. in Computer Science and Engineering PhDs in Materials Science and Engineering PhDs in Environmental Sciences and Engineering Dr. To take in an engineering and science doctoral program will vary depending on the type of degree program you choose as well as the school you choose to attend. Despite this, some course sample names are listed below for illustration: Engineering and Science PhD Program: An Example Course Of Names Design and Analysis of Computer Algorithms Microcomputer Design Advanced Experimental Techniques in Liquid Mechanics Advanced Thermodynamics Computer-Integrated Technology Production Computing Techniques in Materials Science and Engineering Systems for Atmospheric Water Control and The Transformation of Airborne Chemicals and vibrations of biological and microbial oceanography environmental biotechnology ethics research in science and technology general quality management and statistical quality control Advanced Operating System Design Ph.D. and Engineering Degrees: and the salaries of some of the highest paid jobs in science and technology are held by those professionals who have a doctorate in science/technology. Payscale.com reports that on average, individuals with these powers earn about \$120,000 a year. Of course, different positions are associated with different salaries. Below are some of the professions held by doctoral students in science and technology along with their average salary, and also according to Payscale: Vice President of Software Development: \$168,447 Chief Engineer: \$149,622 Senior Data Specialist: \$146,499 Vice President of Analyst: \$146,305 Senior Senior Data Specialist: \$146,499 Vice President of Analytics: \$146,305 Senior Senior Data Fellow: \$146,499 Vice President of Analytics: \$146,305 Senior Research and Development Manager: \$141,363 Lead Systems Engineer: \$125,097 Software Engineer: \$117 Engineering Project Manager: \$106,807 Scientist: \$92,520 Frequently asked questions about science and engineering degrees: Can scientific and engineering degrees be completed online? Answer: Yes, science and engineering degrees are available online, but be sure to check with the school itself about a specific program you plan to participate in as some online offers have residency or other attendance requirements on campus. Even completely online programs can vary in terms of flexibility as well. For example, online programs with synchronized course delivery require a certain amount of login time, making them less flexible than asynchronous options that allow students to complete coursework on their own schedules. The question is: Are scientific and engineering degrees available? A: There are science and technology degree programs available to fit almost every budget. When considering expenses, keep in mind that financial aid may be available to help you pay for your education. This assistance can come in the form of loans, grants or even scholarships. In: Can I keep my job, get a degree in science and technology? Answer: Most likely, yes, but it will depend on the specific science and engineering program you are attending. If you want to work full-time while earning a degree, it's best to consider a part-time, evening, or hybrid/online program to provide maximum flexibility. The question is: Are science and technology jobs being claimed? Answer: Yes. According to the Bureau of Labor Statistics (BLS), jobs in science are growing faster than average, while engineering jobs are expanding at a roughly average rate. Ratings of science and technology programs

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