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Electrical engineering technical report pdf

Interested in learning about your career prospects with an electrical engineering degree? If you currently have a degree in the field, there are a number of different, requested positions that you can qualify for. Electrical engineers can work in many different public and private environments, from a production facility to an industrial plant. This is mainly due to the fact that engineers specialize in designing, developing and testing electrical devices, and electricity plays an important role in virtually all industries. If you want to scope your options, here are some in-demand career opportunities that you should consider: Research Engineers Research engineers may work for companies that develop products, but the more common work in the labs of scientific research and development companies. If you are a creative scientist with a great deal of patience, this can be a good choice for you. A research engineer works with a team of other specialists to develop new electrical units, test existing devices and design better overall products during the product development discovery phase. Design engineers When a team of research engineers has invented a new product, the models and simulations are passed on to design engineers. These electrical engineers are responsible for making the models and simulations designed by the research team into a real, mass-producing product. Electronics have several small parts to work together, and the design team is responsible for the internal design layout, so these separate parts work together. Project Engineers If you have strong leadership qualities, consider becoming a project engineer. Once you have experience in the field, you can land a position where you will be responsible for overseeing research and design teams that have been tasked with developing a new technology or prototype. Project engineers must motivate teams, make recommendations and lead the team. They must also demonstrate their skills in this area. Test technicians A test technician's task is to troubleshoot a device when it is not working properly. If something goes wrong, the test technician will be responsible for identifying the problem and finding solutions to ensure that the technology works properly in the future. This job requires you to spend many hours performing routine tests, which means you need to be able to stay focused for long periods of time. As you can see, electrical engineering is not a limited career area. With many different professionals needs at different stages of product development and testing, there is a place for each electrical engineer. Decide which position you want to enjoy the most, reach the level of education you need to pursue that position, and do what you can to become a valuable asset in a growing area. Electrical engineers involved in design problem solving in electronics. They work in many areas, including health, computing and communications [source: Princeton]. If you're considering a career in electrical engineering, you'll have to do well in math and science while you're in high school [source: BLS, College Board]. Here's what you need to do to become an electrical engineer. Earn a bachelor's degree in engineering with a major in electrical engineering. There is also the possibility to complete a two or four year program in engineering. Those completing a four-year programme will obtain a qualification that is considered equivalent to a bachelor's degree. If you are studying in a four-year non-degree course your course will be more practical, while if you study in a degree program your courses will include several courses on the theoretical side of electrical engineering. As an electrical engineer major you will learn all about electricity, including how it works, how it is used to supply power and how to design electric power plants. Make sure that the institution in which you are studying is accredited by the Accreditation Board for Engineering and Technology (ABET). This will be important if you are to later be licensed as an engineer. Gain experience by working as an apprentice under an electrical engineer. Get licensed by the state where you want to work. This is especially important if you want to work directly with the public. To be licensed you must be trained in a program accredited by the Accreditation Board for Engineering and Technology as well as to have four years of appropriate work experience. You will also need to pass a government study to get your license. Stay away from the latest technological advances by continuing to take courses in the areas relevant to your work [source: BLS]. From batteries to cell phones to computers, electrical engineers touch the technologies that touch people's lives. Electrical engineers design, study and operate devices and systems that use electrical and electromagnetic energy. They are behind improvements in communication technologies and computers. Employers in the field require different levels of training depending on the job. The United States had 154,250 electrical engineers earning a median annual income of $85,920 in May 2011, according to the U.S. Bureau of Labor Statistics. To get an entry-level job in the industry, you need a bachelor's degree in electrical engineering from a program accredited by ABET. Electrical engineering majors study in the classroom, laboratory and the area. In college, electrical engineering students take courses in engineering mathematics, electronic circuitry, electromagnetic fields and waves and digital signal processing, as well as written communication. To prepare for undergraduate major, high school students should take drafting, physics, trigonometry and calculus. Working in research and or as a university instructor, electrical engineers need a master's degree in science in the field. Graduate students take courses to acquire deeper knowledge of specific areas, such as computer hardware and software systems, electronic devices and fields, waves and radioscience. Graduate students can earn their master's degree through courses or by researching and writing a dissertation. Some degree schools require students to have computer programming skills before they begin classes. Earning a Professional Engineer license can increase job opportunities. Some employers encourage licensing and consider the credentials a show of seriousness about the area. Although engineers don't need pe designation to work for some companies, most states make it illegal to start your own engineering business or work as an independent consultant without PE credentials. In addition to training, electrical engineers need special characteristics to make it in the industry. They must be able to apply teaching knowledge to new technologies. They need communication skills to explain design and reasoning, and to give instructions to colleagues in technological development and production. They must be detail-oriented in order to track multiple design elements and technical features during the research and testing of electronic components. They must also be able to use mathematics for analysis, design, and troubleshooting. Electrical engineering is not a high-growth area. The U.S. Bureau of Labor Statistics expects the number of industry jobs to increase by 7 percent from 2010 to 2020, slower than the average for all U.S. industries. Although companies will need engineers to invent new technologies, the number of manufacturers hiring engineers for development will fall. The best options will be in engineering companies, rather than for manufacturing companies, because many companies will reduce the cost of contracting for technical needs instead of directly hiring engineers. Computer systems design and wireless telecommunications are two sectors that will continue to need electrical engineers. By Barbara Bean-Mellinger Updated October 26, 2020 Electrical Engineers Don't Need to Be Licensed to Begin Their Careers; In fact, it's not possible. After obtaining a bachelor's degree, they become engineers-in-training (EITs), which means they must be monitored by experienced engineers who have earned the professional engineer (PE) license by passing the Professional Engineer Exam. They remain EIDs for at least four years as they learn on the job, and when they are ready, they can also take the PE exam. All engineers must earn a bachelor's degree in electrical engineering, electrical engineering technology or similar majors from a college or university that is accredited by their state licensing board, us. Bureau of Labor Statistics (BLS). Elektroteknik Elektroteknik includes classroom teaching, laboratories and fieldwork. Courses include differential equations, digital system design and electrical circuit theory, bls explains. Some colleges offer co-op programs that combine classes with - or alternately with - periods of work, giving you

experience while learning. Some students attend schools offering a five-year combined bachelor's and master's degrees; this gives you even more knowledge and possibly an advantage when applying for a job. A master's degree may also require a higher starting salary and allow you to teach or work in research and development. But earning a degree is just the beginning. With a degree in hand, you can take the Fundamentals of Engineering (FE) exam, and with a passed score, you can be hired as an engineering intern (EI) or engineering-in-training (EIT), which are just different names for the same job; many states that previously used the title EI have changed to the EI, which is the more common title. In this important role, you will spend four or more years learning from SMEs that have many years of experience. While a degree gives you a broad education, you must learn how to apply it to your specific job and according to the company's methods. After the training period, when you are ready, you can take the PE exam and become a PE yourself. Although becoming an PE is not usually a requirement, it is a credential that shows you have the experience and knowledge to lead other engineers and that you are serious about your career. Only INDS Can log off, seal and submit engineering plans and drawings to public or private clients, explains the National Society of Professional Engineers (NSPE), which offers the PE exam. NSPE looks like PE credentials to an accountant becoming a CPA. It shows customers and colleagues that you are among the best in your field. If you want to own your own engineering firm one day or become a consultant, you must become a PE to lead other engineers, approve their plans and charts, and attract top clients. Each state, the District of Columbia and all U.S. territories have licensing requirements for engineers, which may differ little or lot from another state's requirements. Learn the rules early for the mode you need to work in, so there are no surprises when you're applying for licensure to make sure you've met all requirements. Many states also require you to continue to learn the latest techniques and methods in the field by taking continuing training courses to renew your PE license. The BLS is giving a median electrical engineer salary of $98,530 by May 2019. The lowest 10 percent earned less than $63,020, while the highest 10 percent earned over $155,880. A median wage is the centerpiece of a payroll where half earned more and half less. Less.

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