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continue reading to review the various types of electrical engineering degrees professional certifications and what you can do with a degree in electrical engineering electrical engineering is an engineering field focused on electricity and electronics from microscopic computer components to large power networks students who graduate with an electrical engineering majors will have job opportunities in wide ranging fields from telecommunications to the computer industry to the automotive industry electrical engineering deals with the intricacies and technical aspects of electricity and associated technologies whether working with microchips or gigantic power plants this academic field applies to a wide range of industries a bachelor s in electrical engineering is the traditional way students begin their careers carnegie mellon s department of electrical and computer engineering offers one undergraduate degree and two graduate degrees the master of science and phd included as part of these degree programs is the ability to complete studies at various campuses throughout the world electrical engineering is a discipline that studies electricity and electrical technology students discover the wonders of circuit theory and analysis amplifiers semiconductors and reverse engineering an electrical engineer specializes in the design development and maintenance of electrical systems and devices these professionals apply principles of electrical engineering to create solutions that address a wide range of needs from powering homes and businesses to designing advanced electronics and communication systems a bachelor s program in electrical engineering can prepare graduates to design and develop electrical circuits systems and products graduates typically work as electrical engineers developing products for use in robotics medical technology phones navigation systems and game systems common electrical engineering degree specializations include energy generation and transmission magnetostatics and electrostatics types of electric charge and electrical installations such as heating and lighting systems electrical engineering the undergraduate program of this department covers the following key areas of electrical engineering electric and control systems energy control and environment electronics and materials electronics solid state properties and materials and information and communication systems information communications explore the role of electrical engineers in greater detail including the typical job responsibilities you can expect essential skills you should consider cultivating and how much you can make as an electrical engineer eeis is a major consisting of the electrical and electronic engineering course and the integrated informatics course atmospheric plasma and its industrial applications spins for future electronics liquid crystalline organic semiconductors green it by membrane photonic integrated circuits list of laboratories and research themes in the graduate major in electrical and electronic engineering globally cutting edge research in this field with a focus on electric power communications electronic and optical devices integrated circuits and systems and material properties is carried out below is the list of 100 best universities for electrical engineering in the world ranked based on their research performance a graph of 190m citations received by 10m academic papers made by these universities was used to calculate ratings and create the top below is the list of 47 best universities for electrical engineering in tokyo ranked based on their research performance a graph of 2 73m citations received by 170k academic papers made by these universities was used to calculate ratings and create the top see the us news rankings for electrical and electronic engineering among the top universities in japan compare the academic programs at the world s best universities elevate your career and prepare for the future with cu boulder s master of science in electrical engineering offering focus areas in embedded systems power electronics and photonics and optics you will receive the same high quality education and rigor as on campus students taught by world class faculty the advanced curriculum combines choose from a wide range of electrical engineering courses offered from top universities and industry leaders our electrical engineering courses are perfect for individuals or for corporate electrical engineering training to upskill your workforce this ranking lists all the best researchers from the electronics and electrical engineering discipline and affiliated with university of tokyo there are a total of 24 researchers included with 5 of them also being included in the global ranking electrical engineers will be leaders in meeting global challenges in energy health communication and safety as a student in ubc s electrical engineering program you will learn essential skills in electronics 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