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based principally on physics chemistry and mathematics and their extensions into materials science solid and fluid mechanics thermodynamics transfer and rate processes and systems analysis unlike scientists engineers are not jan 19 2023 engineering combines the fields of science and maths to solve real world problems that improve the world around us what really distinguishes an engineer is their ability to implement ideas in a cost effective and practical approach this ability to take a thought or abstract idea and translate it into reality is what separates an engineer from other fields of engineering is a broad term that covers a wide range of applications and industries combining mathematics science and technology engineers produce creative solutions to real world problems as a result there are many different types of engineering degrees available feb 28 2022 nuclear engineering involves the design manufacturing construction operation and testing of equipment systems and processes involving the production control and detection of nuclear

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