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other branch of engineering mechanical engineering mechanical engineering courses develop your ability to design and create mechanical systems including those used in the automotive aeronautics robotics and manufacturing industries subtopics include mechanics fluid dynamics heat transfer and more show all electrical engineering chemistry mechanical engineering covers a range of subtopics including mechatronics and robotics structural analysis thermodynamics and engineering design including the analysis of mechanical systems using finite element methods the science of new materials and devices for micro electromechanical systems mems and biological and nanotechnology

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mechanical engineers are responsible for designing and analyzing manufacturing plants industrial equipment and machinery heating and cooling systems transport systems aircraft watercraft robotics medical devices weapons and many other products among the sub disciplines of mechanical engineering are

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mechanical engineering is the study of physical machines that may involve force and movement it is an engineering branch that combines engineering physics and mathematics principles with materials science to design analyze manufacture and maintain mechanical systems 1 it is one of the oldest and broadest of the engineering branches

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the role of a mechanical engineer is grounded in a deep understanding of physical principles and material science but it s their diverse skills that enable them to innovate and solve complex challenges across various industries

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summary what mechanical engineers do mechanical engineers design develop build and test mechanical and thermal sensors and devices work environment mechanical engineers generally work in offices they may occasionally visit worksites where a problem or piece of equipment needs their personal attention

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in a nutshell mechanical engineering is involved in any object that contains moving parts the mechanical engineering field spans multiple industries including the automotive aerospace

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