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a chemical engineer applies principles of chemistry physics biology and mathematics to design develop and optimize processes and products involving chemical reactions or transformations

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chemical engineers translate processes developed in the lab into practical applications for the commercial production of products and then work to maintain and improve those processes they rely on the main foundations of engineering math physics and chemistry

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chemical engineers explore new ways of applying engineering to invent new materials and advance manufacturing techniques in chemical engineering math skills chemical engineers use calculus and other advanced math for analysis design and troubleshooting in their work problem solving skills

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chemical engineers have been improving our well being for more than a century from the development of smaller faster computer chips to innovations in recycling treating disease cleaning water and generating energy the processes and products that chemical engineers have helped create touch every aspect of our lives

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chemical engineers use chemistry and engineering to turn raw materials into usable products such as medicine petrochemicals and plastics on a large scale industrial setting they are also involved in waste management and research

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chemical engineers apply the principles of chemistry to solve problems involving the production or use of chemicals and biochemicals they design equipment and processes for large scale chemical manufacturing as well as plan and test methods of manufacturing products and treating byproducts and supervise production

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chemical engineers use math and science to address problems involving chemicals food fuel and other products they develop manufacturing equipment materials and processes and oversee production methods

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chemical engineering is the analysis or design of chemical processes to effectively convert materials into more useful materials or into energy it is a broad reaching field impacting everything we touch feel breath eat and do

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chemical engineers at uw design the molecules materials and devices that enable us to better treat disease produce clean energy and live more sustainably the skills of chemical engineers are well suited to creating impactful solutions to a range of complex problems

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overview chemical engineers use computers to manage automated systems in production plants historically the chemical engineer has been primarily concerned with process engineering which can generally be divided into two complementary areas chemical reaction engineering and separation processes

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the most important skills for a chemical engineer to possess include a strong technical knowledge written and verbal communication and relational interpersonal skills

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chemical engineers study mathematics energy and mass transfer thermodynamics fluid mechanics separation technology matter and energy balances and other topics of engineering plus they study chemical reaction kinetics process design and reactor design

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whether it s increasing the speed of computer chips developing new and more effective medicines or enhancing the production and quality of food chemical engineers use their expertise to improve people s lives

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chemical engineers use their knowledge of physics math chemistry materials energy balances thermodynamics kinetics and transport phenomena to produce critical resources sustainably without damaging the environment

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chemical engineers apply the principles of chemistry biology physics and math to solve problems that involve the production or use of chemicals fuel drugs food and many other products they design processes and equipment for large scale manufacturing plan and test production methods and byproducts treatment and direct facility operations

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chemical engineers must be able to explore new ways of applying engineering principles they work to invent new materials advanced manufacturing techniques and new applications in chemical and biomedical engineering

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chemical engineers work to alter the chemical biochemical or physical state of a substance to create everything from face creams to fuels with products and processes being improved to maximise productivity while reducing costs and increasing quality

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learn which key skills are needed for chemical engineering careers including soft and technical skills

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chemical engineers employ and design data science methods to visualize analyze and predict chemical and biological properties data is obtained in a multitude of ways ranging from high throughput instrumentation gene sequencers to computational simulations

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