

Chemical Engineering

Sub-discipline	Topics of interest	Topics of interest	Topics of interest
Biochemical engineering	bioreactor	Bioreactor design	tissue cloning bioreactor
Biomedical engineering	Clinical engineering	Medical devices	Medical imaging
Biomolecular engineering	Protein engineering	Genetic modification	Technological singularity
Biotechnology	Pharmacogenomics	Genetic testing	Cloning
Ceramics	ceramic materials	whiteware ceramics	Electrical properties
Chemical process modeling	process design	Process Flow diagrams	
Chemical Technologist	chemical analysis	food technology	quality control
Chemical reactor			
Computational fluid dynamics			
Distillation Design			
Electrochemistry			
Environmental engineering			
Fluid dynamics			
Food process engineering			
Heat transfer			
Mass transfer			
Materials science			
Microfluidics			
Mineral Processing			
Nanotechnology			
Natural environment			
Plastics Engineering			
Polymers			
Process control			
Process design			
Process development			
Pulp and paper			
Semiconductor device fabrication			
Separation processes			
Crystallization processes			
Distillation processes			
Membrane processes			
Thermodynamics			
Transport Phenomena			
Unit Operations of Chemical Engineering			

Directions: Go to www.wikipedia and then type into the search engine and then write down the other topics of interest.

Network Engineering

Sub-discipline	Topics of interest	Topics of interest	Topics of interest
Mathematical foundations	Mathematical logic	Number theory	Graph theory
Theory of computation	Automata theory	Computability theory	Quantum computing theory
Algorithms and data structures			
Programming languages and compilers			
Concurrent, parallel, and distributed systems			
Software engineering			
System architecture			
Communications			
Databases			
Artificial intelligence			
Visual rendering (or Computer graphics)			
Human-Computer Interaction			
Scientific computing			
Didactics of computer science/informatics			
Informatics			

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Mechanical Engineering

Sub-discipline	Topics of interest	Topics of interest	Topics of interest
Mechanics	Statics	Dynamics	Fluid Mechanics
Kinematics	rotational kinematics	rigid-body kinematics	translational kinematics
Mechatronics and robotics			
Structural analysis			
Thermodynamics and thermo-science			
Drafting			
Acoustical engineering			
Aerospace engineering			
Alternative energy			
Automotive engineering			
Biomedical engineering			
Computer-aided engineering			
Design optimization			
Heating, ventilation, and air conditioning (HVAC)			
Marine engineering			
Nanotechnology			
Nuclear engineering			
Piping			
Power generation			
Nanotechnology			

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Civil Engineering

Sub-discipline	Topics of interest	Topics of interest	Topics of interest
Construction engineering	logistical operations	site development	drafting and reviewing contracts
Environmental engineering	remediation		
Geotechnical engineering			
Hydraulic engineering			
Materials science			
Structural engineering			
Surveying			
Wind Engineering			
Geographic Information System			
Transportation engineering			

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Electrical Engineering

Sub-discipline	Topics of interest	Topics of interest	Topics of interest
Power			
Control			
Electronics			
Microelectronics			
Signal processing			
Telecommunications			
Instrumentation engineering			
Computers	PDA's		
electromechanical systems	Adding machine		
Electric power conversion	DC to DC converter	Voltage stabiliser	Linear regulator

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