

Faculty Recruitment -2016

	Department	Post	Specialization Areas
1	Aerospace Engineering Only candidates with a clear focus on one or more of the specified areas will be considered	Assistant Professor	(1) Aerodynamics of Aircraft (wing-body configurations, reentry vehicles) (2) Control and Flight Mechanics of Aerospace vehicles (3) Aircraft Design (4) Experimental Studies on External Flows (5) Experimental Structural Mechanics
2	Applied Mechanics	Professor	Smart Materials and Structures
3	Biotechnology	Professor	Post graduate in Biochemistry/ Chemistry/ Physics and further research/specialization in any one of the following areas: Molecular Oncology, Computational studies on protein structure and function, Industrial Biotechnology.
4	Chemical Engineering	Assistant Professor Applicants should have at least one degree in Chemical Engineering	<u>Energy</u> - Thermochemical processing; Unconventional energy sources; Carbon capture and sequestration; Electrochemical energy systems; Process intensification; Process Safety; Computational Catalysis. <u>Environment</u> - Aerosol fate and transport; Modeling and remediation/restoration of environmental and ecological systems; Environmental sensors. <u>Materials</u> – Synthesis and characterization of functional materials; fabrication and testing of energy and display devices; non - equilibrium statistical mechanics; multi-scale modeling. <u>Systems Biology</u> - Bioinformatics; Modeling of disease inception, growth and treatment; Biological network analysis.
		Professor	All areas of Chemical Engineering
5	Chemistry	Professor	(1) Atmospheric and Combustion Chemistry (2) Chemistry of Metallaboranes (3) Organometallics for Polymer Synthesis and Catalysis (4) Photophysical Studies of Supramolecular Systems (5) Synthetic Peptides and Heterocycles for Drug Design and Delivery
6	Civil Engineering	Professor	Environmental Engineering (with basic degree in Civil Engineering)
7	Computer Science & Engineering	Assistant Professor	All Areas in Computer Science and Engineering.
		Professor	All Areas in Computer Science and Engineering
8	Electrical Engineering	Professor	Silicon Photonics, Optoelectronics Devices, Solid State Devices.

9	Engineering Design	Assistant Professor	Automotive Electronics, Electric/Hybrid Vehicle Design - requirement of at least one degree in electrical/electronics/allied areas Biomedical Electronics, Medical Device Design, Medical Robotics - requirement of at least one degree in biomedical or electrical/electronics/allied areas
		Professor	Automotive Electronics, Electric/Hybrid Vehicle Design - requirement of at least one degree in electrical/electronics / allied areas Biomedical Electronics, Medical Device Design, Medical Robotics - requirement of at least one degree in biomedical or electrical / electronics / allied areas Mechanical Characterization of Materials for Design and Manufacture
10	Humanities & Social Science	Assistant Professor	English- Linguistics ; Literary Studies
		Professor	<ul style="list-style-type: none"> • Industrial Economics • Social and Political Thought • Urban Geography
11	Mathematics	Professor	Differential Equations
12	Mechanical Engineering	Assistant Professor	<ul style="list-style-type: none"> • Robotics in Manufacturing • Metrology and Inspection • Machine Tools- Design & Dynamics • Additive manufacturing • Robotics and control • Rehabilitation Engineering • Experimental Mechanics • Mechanics of Composites • Turbomachinery • Refrigeration/Cryogenic Engineering • Micro/Nano/Bio Engineering • Solar Thermal Systems
		Professor	All areas of Mechanical Engineering
13	Metallurgical and Materials Engineering	Professor	<ul style="list-style-type: none"> • Texture and microstructural engineering • Structure-property correlations in advanced high strength steels • High temperature structural ceramics • Solid oxide fuel cells
14	Physics	Professor	All areas

