

Annexure to the advertisement No. IIT T/Fac-Rmt-01/2020 dated 30-12-2020

IIT Tirupati – Faculty Recruitment – Specialization Areas

Basic qualifications and experience for the faculty positions are available in the detailed advertisement. In addition to the basic qualifications and experience required for eligibility, applicants are expected to have exceptional academic outputs commensurate with the post applied.

Department wise areas of specialization sought and specific qualification requirements (if any) and are detailed in the table below:

S. No.	Department/Area	Post / Specific Qualification Requirement	Specialization Area
1	Chemical Engineering	Assistant Professor Associate Professor	1. Biomedical Engineering 2. Energy Technology 3. Process Systems Engineering
		Bachelor's or Master's Degree in Chemical Engineering or related disciplines.	
2	Chemistry	Assistant Professor Associate Professor	1. Synthetic Organic Chemistry & Bioorganic Chemistry 2. Inorganic Chemistry: Coordination Chemistry, Supramolecular Chemistry, Organometallic Chemistry
		For both: B.Sc. degree in Chemistry, M.Sc. degree in Chemistry (OR) a BS-MS dual degree in chemistry & Ph.D. in Chemistry OR Chemical Sciences	
3	Civil Engineering	Assistant Professor	Construction Materials
		Associate Professor	Transportation Planning and Management
4	Computer Science & Engineering	Assistant Professor Associate Professor Professor	1. Data Science 2. Big Data Systems 3. Cybersecurity 4. Visualization, AR and VR
		1. Bachelor's Degree in Computer Science & Engineering/Electronics and Communication Engineering or equivalent 2. Master's Degree in Computer Science & Engineering or any allied areas of specialization (this may be waived if the candidate was admitted to a direct Ph.D program after Bachelor's degree.	

		3. Ph.D degree in Computer Science & Engineering or any allied areas of specialization	
5	Electrical Engineering	Assistant Professor Associate Professor	1. Analog and Mixed signal IC Design. 2. Control Systems & Robotics.
		B.E/B. Tech, M.E/M. Tech and PhD in Electrical and Electronics or Electronics and Communication Engineering or any other equivalent stream.	
6	Humanities & Social Sciences	Assistant Professor Associate Professor	Law & Governance, Urbanization, Ecology.
		PhD in Political Science/ Sociology/ Public Policy	
		Assistant Professor Associate Professor	Modern and Contemporary Literature, English and Comparative Literary Studies
		PhD in English	
7	Mathematics & Statistics	Assistant Professor Associate Professor	1. Statistics 2. Dynamical Systems
8	Mechanical Engineering	Assistant Professor Associate Professor	1. Robotics, Mechatronics and MEMS 2. Industrial Engineering
		Professor	Thermal and Renewable Energy
At least one degree (Bachelor's, Master's, Doctoral) in Mechanical Engineering for the all the above positions.			
9	Physics	Assistant Professor Associate Professor	1. Theoretical High Energy Physics 2. Theoretical Quantum Computation and Quantum Information. 3. Theoretical Non-Equilibrium Statistical Physics.
10	Remote Sensing	Assistant Professor Associate Professor	Remote Sensing / Related areas of Technology Development. Specifically interested in candidates with specializations in: (i) Microwave Remote Sensing: Ground penetrating Radar,
		Bachelor's degree in Electrical/Computer Science/Civil Engineering or closely related field. Master's degree in Electrical/Computer Science/Civil Engineering or a related field such as GIS & Remote Sensing,	

		<p>Geoinformatics, Geographic Information Science & Sensor development. Applicants must have a Ph.D. in electrical / computer science engineering or in remote sensing related fields.</p>	<p>Through wall imaging, Medical Imaging, Non-invasive detection, Microwave sensing, Satellite Image processing (SAR, Radar polarimetry, Interferometry), Agriculture Information Systems, Design and development of sensors and systems, Drone/UAV based Remote Sensing Solutions. (ii) Laser ranging/LIDAR and very long baseline interferometry.</p>
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