

Summer Research Fellowship Programme 2016

List of Guides

Engineering - Mechanical

(Tick a maximum of six guides, and click OK button given at the bottom)

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Select	Fellow ID	Name	Specialization	Area of Interest	Subarea of Interest
<input type="checkbox"/>	FL1108	Dalal, Dr Amaresh IIT, Guwahati	Fluid Mechanics, Heat Transfer, Computational Fluid Dynamics	Engineering	* Mechanical
<input type="checkbox"/>	FL1207	Tarafder, Dr S NML, Jamshedpur	Fracture Mechanics, Fatigue, Materials Engineering	Engineering	* Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL1235	Gupta, Prof. Govind S. IISc, Bengaluru	Process Modelling, Iron & Steel Making, Fluid Flow, Heat & Mass Transfer	Engineering	* Aeronautical * Chemical * Civil * Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL1295	Mukherjee, Dr Somenath CMERI, Durgapur	Computational Solid Mechanics, Vibrations & Dynamic Stability, Analytical Mechanics	Engineering Physics	* Aeronautical * Civil * Mechanical * Analytical Mechanics
<input type="checkbox"/>	FL1296	Sahoo, Dr Rashmi Ranjan CMERI, Durgapur	Nanotribology, Nanomaterials, Self-Assembled Monolayer Nanolubrication	Chemistry Engineering	* Physical * Chemical * Mechanical * Metallurgy/Materials Engg * Materials
<input type="checkbox"/>	FL1324	Saravanan, Prof. S. Bharathiar Univ., Coimbatore	Mathematical Modelling, Fluid Dynamics, Heat Transfer	Engineering Mathematics	* Mechanical * differential equations, dynamical systems, mathematical physics
<input type="checkbox"/>	FL1341	Banerjee, Dr Atanu IIT, Guwahati	Kinematics, Control, Smart Material based Sensors & Actuators, Energy Harvesting	Engineering	* Mechanical
<input type="checkbox"/>	FL1413	Ansumali, Dr Santosh JNCASR, Bengaluru	High Performance Computing, Computational Fluid Dynamics, Mesoscale Simulation Methods, Kinetic Theory, Numerical Algorithms,	Engineering	* Aeronautical * Biomedical * Chemical * Computer Science * Mechanical
<input type="checkbox"/>	FL1435	Samanta, Dr Sudip Kumar CMERI, Durgapur	Powder Injection Moulding, Process Modelling, Semi Solid Aluminium Alloy Casting, Rheocasting	Engineering	* Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL1448	Murugan, Dr T. CMERI, Durgapur	Wind Tunnel Testing, Low & High Speed Aerodynamics, Impulsive Flows, Turbulence, Computational Fluid Dynamics, Synthetic Jets	Engineering	* Aeronautical * Civil * Mechanical
<input type="checkbox"/>	FL1614	Bhandarkar, Dr Upendra IIT, Mumbai	Molecular Simulations for Gas Flow in Microchannels & Re-entry Situations, Heat Transfer & Thermodynamics, MHD Flows, Chemical Reactions in Plasmas/Re-entry Flows, Appropriate Technology Solutions	Chemistry Engineering Physics	* Aeronautical * Chemical * Mechanical * Computational Chemistry * Statistical Physics
<input type="checkbox"/>	FL1629	Jonnalagadda, Prof. Krishna IIT, Mumbai	Experimental Mechanics, Solid Mechanics, MEMS, Dynamic/Impact Behavior of Materials, Polymer Mechanics, Fracture Mechanics, High Temperature Mechanical Behavior	Engineering	* Aeronautical * Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL1697	Murthy, Dr Aditya IISc, Bengaluru	Cognitive Neuroscience	Engineering	* Biomedical * Computer Science * Electrical * Electronics * Mechanical
<input type="checkbox"/>	FL1728	Srinivasan, Dr Balaji IIT, New Delhi	Computational Algorithms for Fluid Dynamics, Numerical Analysis	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL1747	Misra, Dr Abha IISc, Bengaluru	Chemical Sensors, Photodetector, Carbon Nanotubes & Graphene, Quantum Dots, Fuel Cells, Hydrogen Absorption, Supercapacitor, Batteries, Mechanical Behavior of Microscopic Foam	Chemistry Engineering Physics	* Physical * Chemical * Electrical * Electronics * Mechanical * Metallurgy/Materials Engg * Condensed Matter Physics

<input type="checkbox"/>	FL1770	Ravi Kumar, Dr N.V. IIT, Chennai	Ceramics, Photocatalysis, Dielectric Materials, Mechanics of Biological Materials, Indentation Techniques	Chemistry Engineering Life Sciences	* Inorganic * Organic * Mechanical * Metallurgy/Materials Engg * Plant Sciences
<input type="checkbox"/>	FL1792	Eshpuniyani, Dr Brijesh BHU, Varanasi	Transition & Turbulence, CFD, Molecular Gas Dynamics, Supersonic & Hypersonic Flows, Biofluid Mechanics	Engineering Physics	* Mechanical * Fluid Dynamics
<input type="checkbox"/>	FL180	Biswas, Prof. Gautam IIT, Guwahati	Fluid Mechanics, Heat Transfer, CFD, Turbulence, Microfluidics	Engineering	* Chemical * Mechanical
<input type="checkbox"/>	FL1835	Gundiah, Dr Namrata IISc, Bengaluru	Tissue Biomechanics, Cell Mechanobiology	Engineering Life Sciences Physics	* Biomedical * Mechanical * Biomedical Science/Biotechnology * Molecular Biology and Cell Biology * Soft Matter Physics
<input type="checkbox"/>	FL186	Bujurke, Prof. N.M. Karnatak Univ., Dharwad	Applied Mathematics, Fluid Dynamics, Numerical Analysis Wavelets	Engineering Mathematics	* Mechanical * differential equations, dynamical systems, mathematical physics * Numerical Analysis,wavelets
<input type="checkbox"/>	FL1902	Nandy, Dr Sambhunath CMERI, Durgapur	Dynamics, Navigation & Control of Autonomous Mobile Robots [Land & Underwater]	Engineering Mathematics	* Computer Science * Electrical * Electronics * Mechanical * control theory, optimization, operations research * differential equations, dynamical systems, mathematical physics
<input type="checkbox"/>	FL1930	Sashikumaar, Dr Ganesan IISc, Bengaluru	Numerical Analysis, Finite Element Method, Computational Fluid Dynamics, Parallel Algorithms, Multiphase flows	Engineering Mathematics	* Aeronautical * Biomedical * Chemical * Mechanical * differential equations, dynamical systems, mathematical physics * Finite Element Analysis
<input type="checkbox"/>	FL195	Chakraborty, Prof. Suman IIT, Kharagpur	Fluid Mechanics & Thermal Sciences	Engineering	* Mechanical
<input type="checkbox"/>	FL1968	Rajesh, Dr G. IIT, Chennai	Experiments in Flows with Shock Waves, Intermediate Ballistics, Flows in Rarefied Regimes	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL1978	Murthy, Prof H.S.N. IIT, Chennai	Damage Mechanisms [including Fatigue & Fracture], Contact Mechanics & Tribology, Composite Materials	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL2025	Dutta, Prof. Pradip IISc, Bengaluru	Heat Transfer, Thermodynamics, Fluid Mechanics	Engineering	* Mechanical
<input type="checkbox"/>	FL2037	Tomar, Dr Gaurav IISc, Bengaluru	Multiscale Simulations, Two- Phase Flows, Heat & Mass Transfer, Thin Films	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL2038	Arakeri, Prof. Jaywant H. IISc, Bengaluru	Fluid Mechanics, Heat Transfer	Engineering	* Aeronautical * Chemical * Mechanical
<input type="checkbox"/>	FL2040	Jagadeesh, Prof. Gopalan IISc, Bengaluru	Experimental Hypersonics, Shockwave Propagation in Complex Fluid Medium	Engineering Physics	* Aeronautical * Biomedical * Mechanical * Atomic Physics, Lasers and Optics
<input type="checkbox"/>	FL2044	Kartik, Dr V. IIT, Mumbai	Dynamics, Vibrations & Control with Applications to Nanotechnology, Aerospace Systems, Advanced Manufacturing, Renewable Energy & Electric/Hybrid-electric Vehicles	Engineering	* Aeronautical * Electrical * Electronics * Mechanical
<input type="checkbox"/>	FL2045	Sreenivas, Prof. K.R. JNCASR, Bengaluru	Thermal Science & Fluid Mechanics	Engineering Earth and Planetary Sci.	* Aeronautical * Mechanical * Atmospheric * Oceanic
<input type="checkbox"/>	FL2118	Singla, Dr Ekta IIT, Ropar	Robotics, Applied Optimization	Engineering	* Computer Science * Electronics * Mechanical
<input type="checkbox"/>	FL2126	Kumar, Dr Navin IIT, Ropar	Vibration and Noise, Bio- mechanics/ Bio-materials, Bone, Tissue, Bio-medical Instrumentation	Engineering Life Sciences	* Biomedical * Mechanical * Metallurgy/Materials Engg * Biomedical Science/Biotechnology * Molecular Biology and Cell Biology * Biomechanics

<input type="checkbox"/>	FL2205	Harursampath, Prof. Dineshkumar IISc, Bengaluru	Nonlinear Mechanics, Multifunctional Composite Structures Analysis, Design & Damage Modelling, Solar Photovoltaic/Thermo/Piezoelectric & Battery Fibers, Self-Flapping MAVs, Stratospheric Airships, SHM	Chemistry Engineering Mathematics Physics	<ul style="list-style-type: none"> * Aeronautical * Electrical * Electronics * Mechanical * differential equations, dynamical systems, mathematical physics * real and complex analysis, functional analysis, harmonic analysis * Condensed Matter Physics * Electrochemistry * Variational Asymptotic Method * Photovoltaics & thermoelectrics
<input type="checkbox"/>	FL2222	Murmu, Dr Naresh C. CMERI, Durgapur	Nanomanufacturing, Surface Coating, Graphene Composites, Bearings	Engineering	<ul style="list-style-type: none"> * Chemical * Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL2297	Samanta, Dr Pranab CMERI, Durgapur	Tribology	Engineering	<ul style="list-style-type: none"> * Mechanical
<input type="checkbox"/>	FL2301	Pal, Dr Sukhomay IIT, Guwahati	Manufacturing Engineering	Engineering	<ul style="list-style-type: none"> * Mechanical
<input type="checkbox"/>	FL2317	Kishore, Dr Nanda IIT, Guwahati	Modeling & Simulation of Bio- fuels, CFD, Rheology, Non- Newtonian Fluids	Engineering	<ul style="list-style-type: none"> * Chemical * Mechanical
<input type="checkbox"/>	FL2377	Basu, Prof. Saptarshi IISc, Bengaluru	Fluid Mechanics, Thermal Engineering, Multiphase Flow, Combustion, Sprays	Engineering Physics	<ul style="list-style-type: none"> * Mechanical * Condensed Matter Physics
<input type="checkbox"/>	FL2407	Bag, Dr Swarup IIT, Guwahati	Manufacturing Engineering	Engineering	<ul style="list-style-type: none"> * Mechanical * Metallurgy/Materials Engg * manufacturing
<input type="checkbox"/>	FL2421	Das, Dr Manas IIT, Guwahati	Nontraditional Machining, Nano- finishing Processes, Magnetorheological Finishing, Machining of Advanced Engineering Materials, Micromachining processes, Micromanufacturing Process, Welding Processes	Engineering	<ul style="list-style-type: none"> * Aeronautical * Biomedical * Electrical * Mechanical * Metallurgy/Materials Engg * Manufacturing Sc. (Advanced Finishing and Nano-finishing Processes, Nor
<input type="checkbox"/>	FL2470	Kumar, Dr Ravi A.V. IPR, Gandhinagar	Laser Plasma, Accelerators, Plasma Acceleration	Engineering Physics	<ul style="list-style-type: none"> * Computer Science * Mechanical * Atomic Physics, Lasers and Optics * Thermal Engineering * Accelerators
<input type="checkbox"/>	FL2488	Sahu, Dr Kirti C. IIT, Hyderabad	Linear Stability Analysis, Numerical Simulation of Multiphase Flow, High Performance Computing	Engineering	<ul style="list-style-type: none"> * Chemical * Mechanical
<input type="checkbox"/>	FL2500	Ghosh Moulic, Prof. Sandipan IIT, Kharagpur	Theoretical & Computational Fluid Dynamics & Heat Transfer, Hydrodynamic & Thermal Instability, Spectral Methods in Fluid Dynamics, Perturbation Methods in Fluid Dynamics	Engineering Mathematics Physics	<ul style="list-style-type: none"> * Aeronautical * Chemical * Mechanical * real and complex analysis, functional analysis, harmonic analysis * Fluid Mechanics * Fluid Mechanics
<input type="checkbox"/>	FL2559	Ghosal, Prof. Ashitava IISc, Bengaluru	Kinematics, Robotics, Non-Linear Dynamics	Engineering	<ul style="list-style-type: none"> * Mechanical
<input type="checkbox"/>	FL2560	Ravikrishna, Prof R.V. IISc, Bengaluru	Combustion & Flow Diagnostics using Laser-Based Techniques, Spray Diagnostics, IC Engine In- Cylinder Processes, Alternate Fuels, Novel Combustor Development, Computational Fluid Dynamics (CFD)	Engineering	<ul style="list-style-type: none"> * Mechanical
<input type="checkbox"/>	FL2562	Matsagar, Dr. Vasant IIT, New Delhi	Earthquake Engineering, Blast Engineering, Vibration Control of Structures	Engineering	<ul style="list-style-type: none"> * Aeronautical * Civil * Mechanical
<input type="checkbox"/>	FL2596	Murthy, Dr Tejas IISc, Bengaluru	Mechanics of Granular Materials, Cellular Materials & Porous Solids, Experimental Solid Mechanics	Engineering Earth and Planetary Sci. Physics	<ul style="list-style-type: none"> * Civil * Mechanical * Engineering Mechanics * Rock mechanics * soft matter
<input type="checkbox"/>	FL2597	Sonawane, Dr Shirish H. NIT, Warangal	Nanotechnology, Process Intensification, Waste Water Treatment, Storage Devices Fuel Cell, Nanocontainers, Anticorrosion Coatings, Cavitation	Engineering	<ul style="list-style-type: none"> * Biotechnology * Chemical * Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL2709	Chaudhuri, Dr Swetaprovo IISc, Bengaluru	Turbulent Reacting Flows in Gas Turbine & Scramjet Combustors, Supernovae, Laser Diagnostics, High Performance Computation, Turbulence Physics, Hydrodynamic Instabilities, Solar Cells	Engineering Physics	<ul style="list-style-type: none"> * Aeronautical * Mechanical * Astronomy and Astrophysics
<input type="checkbox"/>	FL2743	Tarafder, Dr Mita NML, Jamshedpur	Computational Metallurgy & Materials Science, Innovation & Entrepreneurship	Engineering	<ul style="list-style-type: none"> * Computer Science * Electronics * Management Sciences * Mechanical * Metallurgy/Materials Engg * Entrepreneurship

<input type="checkbox"/>	FL2750	Behera, Dr Manasa Ranjan IIT, Mumbai	Computational Fluid Dynamics (CFD), Coastal Engineering, Ocean Renewable Energy	Engineering	* Civil * Mechanical * Ocean Engineering
<input type="checkbox"/>	FL2753	Agrawal, Dr Anupam IIT, Ropar	Manufacturing Processes, Analysis of Forming Processes, CAD/CAM	Engineering	* Mechanical
<input type="checkbox"/>	FL2867	Kalita, Dr Karuna IIT, Guwahati	Rotordynamics, Coupled Dynamics of Electro-mechanical Systems, Vibration, Magnetic Bearings, Self-bearing Machines	Engineering	* Mechanical
<input type="checkbox"/>	FL2881	Bhandakkar, Dr Tanmay K. IIT, Mumbai	Solid Mechanics	Engineering	* Mechanical
<input type="checkbox"/>	FL2884	Saha, Dr Arun K. IIT, Kanpur	Fluid Mechanics, Heat Transfer	Engineering	* Mechanical
<input type="checkbox"/>	FL2890	Bandyopadhyay, Dr Sandipan IIT, Chennai	Robotics [Parallel Manipulators], Design & Analysis of Mechanisms, Product Development	Engineering	* Mechanical
<input type="checkbox"/>	FL2899	Das, Dr Shyama Prasad IIT, Chennai	Fluid Mechanics, Thermal Engineering, Aerodynamics	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL2903	Agrawal, Prof. Amit IIT, Mumbai	Fluid & Thermal Sciences	Engineering	* Aeronautical * Biomedical * Biotechnology * Chemical * Mechanical
<input type="checkbox"/>	FL2919	Sreenivasan, Dr Binod IISc, Bengaluru	Magnetohydrodynamics, Planetary Magnetism, Dynamo Theory, Vortex Dynamics	Engineering Physics	* Mechanical * Astronomy and Astrophysics
<input type="checkbox"/>	FL297	Govindarajan, Prof. Rama TIFR-CIS, Hyderabad	Fluid Dynamics	Engineering	* Mechanical
<input type="checkbox"/>	FL2989	Chandiramani, Prof. Naresh K. IIT, Mumbai	Structural Dynamics, Vibration, & Control, Solid Mechanics, Composite Structures	Engineering	* Aeronautical * Civil * Mechanical * Applied Mechanics
<input type="checkbox"/>	FL2997	Balasubramanian, Prof. Sridhar IIT, Mumbai	Fluid Instabilities, Buoyant Jet & Plume Dynamics, Rotating Thermal Convection, Geophysical Fluid Dynamics, Turbulent Multiphase Flows, Experimental Techniques	Engineering Earth and Planetary Sci.	* Civil * Mechanical * Atmospheric * Oceanic
<input type="checkbox"/>	FL2998	Chatterjee, Dr Dhiman IIT, Chennai	Cavitation, Multiphase Flows, Turbomachines, Microscale Fluid Flow, Application of Ultrasound in Biology & Medicine	Engineering	* Mechanical
<input type="checkbox"/>	FL2999	Raghavan, Dr Vasudevan IIT, Chennai	Droplet Combustion, Laminar Flame Stability, Reacting Flow Modelling	Engineering	* Mechanical
<input type="checkbox"/>	FL3000	Ravi, Prof. M.R. IIT, New Delhi	Heat Transfer, Computational Fluid Dynamics, Combustion, Biomass Energy, Rural Energy Systems	Engineering	* Mechanical
<input type="checkbox"/>	FL306	Gupta, Prof. Sanjeev Kumar IISc, Bengaluru	Modelling & Simulation, Nanosize Objects, Colloids, Energy Storage	Engineering	* Chemical * Mechanical
<input type="checkbox"/>	FL3098	Kapurja, Prof. Santosh IIT, New Delhi	Structural Mechanics, Multifunctional Structures	Engineering	* Civil * Mechanical
<input type="checkbox"/>	FL3118	Krishnamurthy, Prof. Muralidhar IIT, Kanpur	Fluid Mechanics, Heat Transfer, Optical Measurements, Dropwise Condensation, Water Harvesting, Suspension Dynamics, Interfacial Phenomena	Engineering	* Mechanical
<input type="checkbox"/>	FL337	Jayaram, Prof. Vikram IISc, Bengaluru	Ceramics, Thin Films, Electron Microscopy	Engineering	* Mechanical * Metallurgy/Materials Engg
<input type="checkbox"/>	FL441	Mittal, Prof. Sanjay IIT, Kanpur	Unsteady Aerodynamics, Finite Element Analysis, High Performance Computing, Vortex Induced Vibrations, Sports Aerodynamics, Bluff-body Flows, Traffic Flow, Experimental Fluid Mechanics, Transition and Turbulence, Stability of Flows, CFD	Engineering	* Aeronautical * Mechanical
<input type="checkbox"/>	FL737	Waghmare, Prof. Umesh V. JNCASR, Bengaluru	Multi-Functional Oxide Materials, Nanostructures, Geometric Phases & Topological Insulators	Engineering Physics	* Mechanical * Metallurgy/Materials Engg * Condensed Matter Physics

<input type="checkbox"/>	FL741	Yajnik, Dr Kirit S. Fourth Paradigm Institute, Bengaluru	Fluid Mechanics, Climate Change, Modelling & Simulation of Oceans, Modelling of Mechanical Systems	Engineering Earth and Planetary Sci. Mathematics	* Aeronautical * Mechanical * Earth Sciences * Oceanic * differential equations, dynamical systems, mathematical physics
<input type="checkbox"/>	FL763	Kulkarni, Dr Amol Arvindrao NCL, Pune	Fluid Dynamics, Turbulence, Continuous Flow Synthesis	Engineering	* Chemical * Mechanical
<input type="checkbox"/>	FL811	Nott, Prof. Prabhu R. IISc, Bengaluru	Fluid Dynamics, Complex Fluids, Rheology, Granular Materials	Engineering	* Chemical * Mechanical
<input type="checkbox"/>	FL993	Bhaumik, Prof. Subhasis IEST, Shibpur	Mechatronics, Robotics, Exoskeleton Devices, System Modelling, Sensor Development, Mobile Robotics, Prosthesis Devices, Bio-signals	Engineering	* Biomedical * Computer Science * Electronics * Mechanical