

**Selected Candidates
For
Inspire Faculty Fellowship-2011**

I-Mathematics

S.No.	Name of Applicants & Address	Present Institute	Area of Specialization	Title of Project
01.	Dr. Mahender Singh Institute of Mathematical Sciences CIT Campus, Taramani Chennai-600113, Tamil Nadu Mob: 91-8056090173 Email: mahen51@gmail.com mahender@imsc.res.in	Institute of Mathematical Sciences, Chennai	Algebraic Topology and Group Theory	Group Actions on Manifolds and Automorphisms of Groups
02.	Dr. Sushil Gorai Department of Mathematics Indian Institute of Science Bangalore-560012 (Karnataka) Mob: 9342330859 Email: sushil.gorai@gmail.com	Indian Institute of Science, Bangalore	Several complex variables	Local polynomial convexity of certain classes of closed sets
03.	Dr. Suparna Sen Statistics and Mathematics Unit Indian Statistical Institute 203, Barrackpore Trunk Road Kolkata-700108 (West Bengal) Mob: 09007389561 Email: suparna29@gmail.com	ISI, Kolkata	Harmonic analysis	Harmonic analysis on symmetric spaces, Damek-Ricci spaces and homogenous trees
04.	Dr. Koushik Saha Statistics and Mathematics Unit Kolmogorav Bhavan Indian Statistical Institute 203, B. T. Road, Kolkata-700108 (W B) Mob: 0-9230089921 Email: koushiksaha877@gmail.com	Asst. Professor Dept. of Mathematics, Bidhannagar College, Kolkata	Probability theory (Random matrix, Free probability, extreme value theory)	Study of patterned random matrices

05.	Mr. Chandrasheel Bhagwat C/o Dr. Rajendra Bhagwat 1479, Niramay, Risala Road Sangli-416416, Maharashtra Mob: 9867952950 Email:chandrasheel.bhagwat@gmail.com	Tata Institute of Fundamental Research, Mumbai	Number theory, Lie groups, Representation theory	The study of spectrum of compact locally symmetric spaces using the representation theory of semisimple Lie groups and analytic properties of various Zeta functions associated to them
06.	Dr. Shibananda Biswas H. No. 810 Sahid Hemanta Kumar Basu Sarani Panchanantala, Kolkata-700074 (WEST BENGAL) Mob: 8013449479 Email: shibananda@gmail.com	Dept. of Mathematics, Ben Gurion University of the Negev, Beer Sheva-84105 ISRAEL	Operator theory	Study of analytic Hilbert modules and non-commutative function theory
07.	Dr. Sakthivel K. 3/35E, Puliampatti Veeralpatti-Post Pollachi, Coimbatore-District Pin-642123, Tamil Nadu Mob: 9944058650 Email: pktsakthi@gmail.com	Postdoctoral Fellow, National Academy of Sciences-NRC California, USA	Control, inverse problems and stochastic analysis of partial differential equations	Stochastic analysis, control and solvability of fluid flow models
08.	Dr. Arijit Chakrabarty Statistics and Mathematics Unit Indian Statistical Institute 7, SJS Sansanwal Marg New Delhi-110016 Email:arijit@isid.ac.in Tel: 011-41493918	ISI, New Delhi	Probability and Statistics	The study of matrices whose entries are generated from a (heavy tailed distribution)

II- Physics

S.No.	Name & Address of Applicant	Present Institute	Area of Specialization	Title of the Proposal
01.	Dr. Rahul Singhal Inter University Accelerator Centre (IUAC) Aruna Asaf Ali Marg, Post Box No. 10502 New Delhi-110067 Mob: 9311827207, Tel: 011-26893955 Email: rahuliuac@gmail.com; rahul@iuac.ernet.in	Inter University Accelerator Centre (IUAC)	Material sciences	Development of efficient polymer-fullerene based bulk Heterojunction organic solar cells using noble metal nanoparticles
02.	Ms. Himali Bhatt A-2/4-3, Millenium Towers Sector-9, Sanpada Navi Mumbai-400705 Mob: 0-9819929362, 0-9757424862 Email: mshimali@gmail.com	ARIES Kumaun University, Nainital	Astrophysics	Multi-wavelength Studies of Young Open Clusters
03.	Dr. Razack Imran Jafri C/o Dr. S. Ramaprabhu Department of Physics Indian Institute of Technology Madras Chennai-600036, Tamil Nadu Mob: 0-9444771931 Email: imran@physics.iitm.ac.in, imraniit@gmail.com	Indian Institute of Technology Madras	Nano materials, Energy storage and Utilization	Energy related applications of Carbon Nanostructures
04.	Dr. Vivek Vijay Parkar C/o Dr. Kripamay Mahata Nuclear Physics Division Van-de-Graaff Building Bhabha Atomic Research Centre Trombay, Mumbai-400085 Tela: 91-22-25593457(O) 91-22-25506894 (R) Email: parkarvivek@gmail.com	Postdoctoral Fellow University of Huelva, Spain	Nuclear Physics	Reaction mechanism studies with weakly bound nuclei

05.	Ms. Sumita Kumari Sharma Physical Sciences Division Institute of Advanced Study in Science & Technology Paschim Boragaon, Guwahati- 781035 Assam Mob: 91-9864115900 Email: sumita_sharma82@yahoo.com	Institute of Advanced Study in Science & Technology Paschim Boragaon, Guwahati	Plasma Physics	Investigation of some basic phenomena in a strongly coupled dusty plasma
06.	Dr. Kamendra Awasthi C/o Professor Ashutosh Sharma DST Unit on Nanosciences Department of Chemical Engineering IIT, Kanpur-208016, UP Mob: 91-9457019794 Email: kamendra.awasthi@gmail.com	Young Scientist Dept. of Chemical Engg. IIT, Kanpur	Soft Condensed Matter Physics	Block Copolymer based Nano porous Polymer Membranes: Engineering and Applications
07.	Dr. Tiju Thomas 9, Baltimore Street St. John's, ZIP Code: A1B3B6 Newfoundland, CANADA Mob: 7097496900 Email: tt332@cornell.edu	Postdoctoral Fellow, Physics Dept. Memorial University, Newfoundland, Canada	Materials Science, Applied Physics	Liquid crystal nanoscience: new directions in hybrid materials research Full solar spectrum absorbers for photovoltaic applications

III- Chemistry

S.No.	Name & Address of Applicant	Present Institute	Area of Specialization	Title of the Proposal
01.	Dr. Himansu Sekhar Biswal HIG/413A, Kalinga Vihar Bhubaneswar-751019 Orissa Mob: 9777228168 Email: himansubiswal@gmail.com	Postdoctoral Fellow CEA, Saclay, France	Physical Chemistry Molecular Spectroscopy & Quantum Computational Chemistry	Laser Spectroscopy and Theoretical Investigations of Sulfur Containing Organic Molecules and Bio-Molecules in Gas-phase
02.	Dr. Khushwinder Kaur H. No. 447/2, Sector-45A Chandigarh-160047 Punjab Mob: 9872040447, 0172-2611922 Email:makkarkhushi@gmail.com	Research Associate Centre of Advanced Studies in Chemistry Panjab University, Chandigarh	Physical Chemistry	Fabrication of Nanoemulsions for Solubilization and efficient delivery of food Components
03.	Dr. Abhimanew Dhir C/o Dr. Manoj Kumar Department of Chemistry Guru Nanak Dev University Amritsar-143005, Punjab Mob: 9815661937, 9256472605 Email: abhimanew_dhir@yahoo.com	Guru Nanak Dev University, Punjab	Supra-molecular Chemistry	Engineering molecular organic frameworks (MOFs): Crystal structure and photo physical properties
04.	Mr. S. Nagarajan C/o Dr. T. Mohan Das Department of Organic Chemistry University of Madras (Guindy Campus) Chennai-600025 (Tamil Nadu) Mob: 9940430715 Tel: 91-44- 22202818 Email: snrajannpt@yahoo.co.in	University of Madras	Organic Chemistry	To construct a new methodology for synthesis of sugar heterocyclic derivatives (Natural product analogs) and its biological investigation, Synthesis of various disaccharide/polysac charide derivatives and its involvement in biochemical process, Synthesis and material application of various substituted Phthalocyanines

05.	Ms. Christy George R. No. 230, Sarayu Hostel Indian Institute of Technology Chennai-600036 (Tamil Nadu) Mob: 9840232621 Email: christygeo2003@gmail.com	IIT, Madras	Magnetic Resonance Spectroscopy and Imaging	High Resolution NMR, Spatially Resolved NMR; Dynamic Nuclear Polarization
06.	Dr. Bhawana Singh S-8/114-21, 22 Indira Nagar Colony Khajuri, Varanasi-221002 (UP) Mob: 9450537305 Email: bhawanabhu15@gmail.com	SRF-Ext (CSIR)- Self Proposal	Organic Chemistry	Synthesis of Bioactive Heterocyclic Compounds: The modified, convenient and efficient approach to Fused Triazoles, Aziridines, Indoles, Oxepanes and Oxecanes
07.	Dr. Atish Chandra Lab No. 19, Department of Chemistry Faculty of Science BHU, Varanasi-221005 (UP) Mob: 9936440997 Email: atishchandra@gmail.com	DSK-Postdoctoral (UGC)	Organic Chemistry	General Approach to Bioactive Bisindoles and Study of Bioactivities

08.	Mr. Vishnu Prabhakar Srivastava C/o Professor LDS Yadav Department of Chemistry University of Allahabad Allahabad-211002, UP Mob: 9919052174 Email: prabhaker7777@yahoo.com	University of Allahabad	Organic Chemistry	Strategic applications of olefin/alkyne metathesis to access Baylis-Hillman adducts derived novel carbocycles/heterocycles
09.	Mr. Vimal Kumar C/o Shri Vijay Kumar H. No. 628, Phase-3-B-1 SAS Nagar, District-Mohali-160059 (Punjab) Mob: 0-8968155223, 0-9988005223 Email: vimalkbhardwaj@gmail.com	Guru Nanak Dev University, Punjab	Inorganic Chemistry	Synthesis, characterization and investigation of comparative catalytic activities of transition metal complexes of monopodal, dipodal, tripodal and tetrapodal Schiff bases and their reduced products
10.	Dr. Venkata Krishnan MANA Research Associate Centre for Materials Nanoarchitectonics (MANA) National Institute for Materials Sciences (NIMS) 1-1, Namiki, Tsukuba, Ibaraki- 3050044 JAPAN Tel: +81-29-851-3354 (extn. 8459) Email: krishnan.venkata@nims.go.jp	Research Associate National Institute for Materials Science (MANA)	X-Ray Techniques and Structural Materials Chemistry	Controlled Fabrication of Realistic Nano- Circuits using robust artificial peptides

11.	Dr. Bhalamurugan Sivaraman H. No. 2, Kamatchi Street N-Pudur Senjai Karaikudi-630001, Tamil Nadu Mob: 9486105628 Email: bhala.sivaraman@gmail.com	Visiting Fellow DNAP, TIFR, Mumbai	Astro-chemistry	Laboratory Astrophysics/Astro- chemistry-Simulating Astrochemical Ices in the Laboratory
12.	Ms. Indumathy Ramasamy Chemical Laboratory Central Leather Research Institute Adyar, Chennai-600020 Tamil Nadu Mob: 9994061084 Email: indu_mathi99@yahoo.com	University of Madras	Bio-inorganic Chemistry	Cobalt complexes as photo chemotherapeutic agents
13.	Dr. Jeet Kalia Apartment No. 420 4853 Cordell Avenue Bethesda, Maryland-020814 USA Mob: 2404183699 Email: kaliaj@ninds.nih.gov	Research Postdoctoral Fellow National Institute of Health, Bethesda, MD, USA	Organic Chemistry, Chemical Biology, Ion Channel Physiology	Guanidine compounds as therapy for neuromuscular disorders
14.	Dr. Niraj Kumari Department of Chemistry, Lab No. 14, BHU Varanasi-221005, UP Email:nirajchem@gmail.com Mob: 9450533511	Department of Chemistry, BHU	Inorganic Chemistry	Development of metal- based receptors: structural and recognition studies

IV- Engineering & Technology

S.No.	Name & Address of Applicant	Present Institute	Area of Specialization	Title of the Proposal
01.	Dr. Rahul Vaish C/o Puneet Azad, 9/14 (G. F.) Nehru Enclave East, Kalkaji New Delh-110019 Mob: 9871314563 Email: vaish.rahul@gmail.com	Assistant Professor Galgotias College of Engineering and Technology Greater NOIDA, UP	Materials Science	Glasses and Glass-ceramics for Electrical Energy Storage Devices
02.	Mr. Ankur Verma C/o Prof. Ashutosh Sharma Department of Chemical Engineering Indian Institute of Technology Kanpur-208016, UP Mob: 9415861396 Email: verma.ankur@gmail.com	Senior Project Associate IIT, Kanpur	Chemical Engineering, Micro & Nano-Fabrication, Interfacial Science	Fabrication of Bio-Inspired Optofluidic Device: A point of Care Flow Cytometer
03.	Ms. Preeti Nigam (Joshi) C/o Hemlata Nigam Lupin Bioresearch Center Sai Trinity, Wing-A, Unit-1,2,3&4 Survey No. 146/2/1B Pashan, Pune-411021 Mob: 9372489034, 9372819034 Email: nigampreeti@gmail.com	School of Biochemical Engineering, IT, BHU	Biochemical Engineering	Application of Nano-technology as diagnostic and therapeutic tool for cancer
04.	Mr. Pravesh Biyani L-802, Ratnagiri Apartments Kaushambi, Near Anand Vihar Ghaziabad-201010, UP Mob: 9910952932 Email: biyanip@gmail.com	Sr. Staff Engineer Ikanos Communications, USA	Electrical engineering (Signal Processing, Communications)	Low complexity algorithms for resource allocation in communications and compressed sensing
05.	Mr. Tapan Kumar Gandhi CBME, Block-II/299 IIT Delhi, New Delhi-110016 Mob: 9311438988 Email: gandhitk@gmail.com	Consultancy in Couple of Key Projects to DRDO, AIIMS and IIT, Delhi	Computational Neuroscience	Characterizing and improving face-processing skills in autistic children

VI- Bio-Medical Sciences

S.No.	Name & Address of Applicant	Present Institute	Area of Specialization	Title of the Proposal
01.	Dr. Hemant Ritturaj Kushwaha Block-9, H. No. 116 (Back Portion) Ramesh Nagar, New Delhi-110015 Mob: 09868801604 Tel: 011-25913705 Email: ritturajhemant@gmail.com	JNU	Bio-informatics	Flux balance analysis (FBA): Novel drug targets in Various <i>Mycobacterium</i>
02.	Dr. Anil Kumar Pasupulati 3515, Green Brier Blvd Apartment 6A, Ann Arbor MI, USA-48105 Mob: 9441181348 Email: anilk@umich.edu	Postdoctoral Fellow University of Michigan Ann Arbor	Endocrinology/Diabetic Nephropathy	A novel Non-canonical role of growth Hormone in Podocytes: Implications in Diabetic Nephropathy
03.	Dr. Konkallu Hanumae Gowd C/o Professor P. Balaram's Lab Molecular Biophysics Unit, Indian Institute of Science, Bangalore-560012, Karnataka Phone: 080-22932337 Email: gowd@mbu.iisc.ernet.in	Molecular Biophysics Unit IISc, Bangalore	Chemical Biology	Disulfide Rich <i>Conus</i> Peptide-Based Scaffolds for Fncational Miniature Proteins

04.	Dr. Medha Priyadarshini Department of Biochemistry Faculty of Life Sciences Aligarh Muslim University Aligarh-202002, UP Mob: 9837261477 Email: medha.priyadarshini@gmail.com	Research Associate CSIR, Aligarh Muslim University	Biochemistry	Novel Prognostic Markers and Therapeutic Stratagem for Sepsis
05.	Mr. Pradeep Sharma Department of Biophysics All India Institute of Medical Sciences (AIIMS) New Delhi-110029 Mob: 91-9013770840 Email: pradeepbdk@gmail.com	DBT Senior Research Fellow AIIMS, New Delhi	Structural Biology	An approach towards targeting pathogen associated molecular patterns and heat shock protein-70 by peptidoglycan recognition protein
06.	Dr. Rupesh Dash 5, GHIM MOH RD #02-216 Singapore-270005 Phone: +65-90872406 Email: rupesh.dash@gmail.com	Research Fellow Institute Molecular and Cell Biology, Singapore	<i>Cancer epigenetic, Prevention of Oral (Head and Neck) Cancer</i>	Developing a novel and effective therapy for overcoming treatment resistance of malignant oral squamous carcinoma
07.	Dr. S. Bharathi Raja 4/470/A-1, Bye Pass Road Thiruvalluvar Nagar Newtown, Vaniyambadi-635752 Tamilnadu Mob: 9940453909 Email: bharu.ap@gmail.com	Production Manager, Genwin Biotech Hosur	Molecular oncology/Stem Cell Biology in Carcinogenesis/Molecular Immunology/Glycobiology and Host-pathogen interactions	Role of Inflammatory mediators in transition of Gastric/Colonic adult Stem Cells/Epithelial Cells to Tumor initiating Cells "Cancer Stem Cells"
08.	Dr. Seema Lab No. 19, Genetics Department MD University, Rohtak-124001, Haryana	MDU	Evolutionary Genetics	Thermal adaptation in ectotherms: A case study of Drosophilids in western Himalayas

09.	<p>Dr. Shivaram Selvam 1023, Hemphill Ave. NW Apartment No. 2 Atlanta, GA, 30318 Tel: +1213 2550207 Email: shivaramselvam@gmail.com</p>	Georgia Institute of Technology, Atlanta	Tissue Engineering and Regenerative Medicine	Targeted delivery of the transcription factor protein, Pdx1 (pancreatic and duodenal homeobox 1), using functionalized liposomes to reprogram pancreatic glucagon-producing α -cells into β -like insulin producing cells in mice models of type 1 and type 2 diabetes <i>in vivo</i>
10.	<p>Dr. Somlata C/o Prof. Alok Bhattacharya Lab No. 118, School of Life Sciences Jawaharlal Nehru University New Delhi-110067 Mob: 91-9868444651 Email: somlata83@gmail.com</p>	JNU	Molecular Parasitology	Deciphering the role of phosphoinositides in <i>Entamoeba histolytica</i> pseudopod formation and phagocytosis

VII- Plant & Agriculture Sciences

S.No.	Name & Address	Present Address	Area of Specialization	Title of Project
01.	Ms. Charu Lata Lab No. 103 National Institute of Plant Genome Research Aruna Asaf Ali Marg, New Delhi-110067 Mob: 9958424684 Tel: 91-11- 26735160 Email: charulata@nipgr.res.in; charulata14@gmail.com	Agricultural Scientists Recruitment Board, ICAR	Plant Molecular Biology	Transcript profiling of major millet crops under drought stress and cloning- characterization of stress- inducible transcription factors
02.	Dr. Felix Bast Centre for Biosciences, Central University of Punjab Bathinda-151001 (Punjab) Mob: 09872152694 Email: felix.bast@gmail.com	Kochi University, Japan	Marine Biology, Evolutionary Sciences, Phylogenetics	Chemical and Phylogenetic Diversity of Seaweeds in Indian Subcontinent
03.	Dr. Hima Bindu Kudapa Building No. 300 Applied Genomics Laboratory RP Grain Legumes International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) Patancheru-502324, Hyderabad (A.P) Mob: 9849643413 Email: hima_binduk@yahoo.co.in k.himabindu@cgiar.org	Charya Nagarjuna University	Biotechnology	Expression profiling and crosstalk between abiotic and biotic stress-responsive candidate genes in chickpea (<i>Cicer arietinum L.</i>)
04.	Dr. Jasmine M. Shah 29-F4, Karthekeya Apartments Kannapiran Street Gandhi Road, Velacherry Cheenai-600042, Tamil Nadu Mob: 09600001831 Email: jas109@gmail.com	Madurai Kamaraj University	Biotechnology	Mechanism deployed by plant host to maintain its genomic integrity, in response to bacterial stress