

## SHASTRI RESEARCH STUDENT FELLOWSHIP (SRSF) 2018-19

### a. SRSF: Post Doctoral

| Sr.No. | Name of the Applicant and Institution                         | Topic of Project   | Title of Post Doctoral  | Discipline                               | Proposed institution/university for affiliation   |
|--------|---|--|---|--|---|
| 1      | <b>Biplab Brahma</b><br>Assam University                      | Soil nutrient management and Carbon sequestration: A step towards sustainable soil management in climate change scenario       | Production of Phytolith Occluded Carbon for advancing climate change mitigation                                     | Environmental Science and Climate Change | <b>Andrew Hammermeister</b><br>Dalhousie University<br><b>Pierre-Luc Chagnon</b><br>Université de Montréal  |
| 2      | <b>Mayur Sawant</b><br>Indian Institute of Technology Indore  | Investigations on additive manufacturing of NiTi biomedical components by plasma transferred arc deposition process            | Investigations on additive manufacturing of NiTi biomedical components by plasma transferred arc deposition process | Mechanical Engineering                   | <b>Ahmed Qureshi</b><br>University of Alberta   |
| 3      | <b>Monika Patel</b><br>University of Delhi                    | Sustainable Strategies for C-H and C-N Bond Functionalization in Drug Discovery Using Photochemical Continuous Flow Technology | Base Assisted Chemo- and Regioselective C-N, C-S and C-O Bond Formation with Isotopic Labeling Studies              | Chemistry                                | <b>Helene Lebel</b><br>Univesite de Montreal<br><b>Marco A. Ciufolini</b><br>University of British Columbia |
| 4      | <b>Supriya Katti</b><br>Indian Institute of Technology Kanpur | Understanding the Influence of Business Group Affiliation on Corporate Social Responsibility: Evidence from India and Canada   | Finance   | Social Sciences                          | <b>Shantanu Dutta</b><br>University of Ottawa   |

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| W1 | <b>Asim Rizvi</b><br>Aligarh Muslim University | Characterization of pro-cancerous roles of poly(ADP- ribose) polymerase-1 in solar ultraviolet radiation-induced skin cancer | Investigating the pro-differentiating effects of Vitamin D on Ovarian Cancer Stem Cells | Biomedical Sciences | <b>Girish Shah</b><br>Laval University |
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## b. SRSF : Doctoral

| Sr.No. | Name of the Applicant and Institution                                 | Topic of Project  | Title of PhD   | Discipline                     | Proposed institution/university for affiliation  |
|--------|---|---|--|--------------------------------|--|
| 1      | <b>Pritam Bari</b><br>Indian Institute of Technology Kanpur           | Dynamics of serrated end mills with variable pitch and helix  | Mechanics and Machining Dynamics of Serrated End Mills   | Mechanical Engineering         | <b>Yusuf Altintas</b><br>The University of British Columbia  |
| 2      | <b>Monu Verma</b><br>Malaviya National Institute of Technology Jaipur | Affective sensing based nonverbal behavior analysis for depression diagnosis  | Facial Expression Analysis for Human Emotion Recognition   | Computer Science & Engineering | <b>Nizar Bouguila</b><br>Concordia University  |
| 3      | <b>Sameer Sharma</b><br>University of Toronto                         | Thin film nanofabrication of optically transparent touch panel sensors and microwave circuits                           | Equivalent Optically Transparent Circuits: An Optimization-Driven Methodology for the Design of Optically Transparent Circuits, Sensors and Antennas | Electrical Engineering         | <b>Bodh Raj Mehta</b><br>Indian Institute of Technology Delhi  |
| 4      | <b>Dibyendu Ghosh</b><br>Indian Institute of Technology Kharagpur     | Collective Dynamics and Pattern Formation of Janus Particles with Applied Magnetic Fields                               | Towards a Comprehensive Formulation of Ferrohydrodynamics and Cavity Driven Flow as a Case Study   | Mechanical Engineering         | <b>Ishwar K. Puri</b><br>McMaster University   |
| 5      | <b>Anamika Dubey</b><br>Dr. Harisingh Gour Central University Sagar   | Isolation and Characterization of a Novel Pathogenesis-Related Protein Gene in soybean under pathogen stress conditions | Engineering Rhizosphere Microbiome Of Soybean For Improving Plant Performance And Disease Resistance   | Botany                         | <b>Selvadurai Daya Dayanandan</b><br>Concordia university<br><b>Ravindra N Chibbar</b><br>University of Saskatchewan |

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| 6  | <b>Cinu Varghese</b><br>Indian Institute of Technology<br>Kharagpur | Evaluation and Characterization of Developed High-Energy, Nutrient-Dense Food Bar for Undernourished Adolescents               | Development of High-Energy, Nutrient-Dense Food Bar for Undernourished Adolescents   | Rural Development       | <b>Roopesh Mohandas Syamaladevi</b><br>University of Alberta   |
| 7  | <b>Ankita Shroff</b><br>Maharaja Sayajirao University of Baroda     | An Experimental Study on Developing an Anti-Microbial and Insect Repellent Textile Fabric for Preservation of Textiles         | An experimental study on developing an antimicrobial and insect repellent fabric for preservation of textiles                  | Home Science            | <b>Patricia Dolez</b><br>University of Alberta   |
| 8  | <b>Sanil Kumar</b><br>Indian Institute of Technology Roorkee        | Planning For Integrated Development In Kuttanad Wetland Region Of Kerala State, India  | Planning For Integrated Development In Kuttanad Wetland Region Of Kerala State, India  | Urban Planning & Design | <b>Patricia E. Perkins</b><br>York University  |
| 9  | <b>Athira M</b><br>Pondicherry University                           | Inspecting Gastronomical Narratives- The Role of Food in Children's Literature   | Inspecting Gastronomical Narratives- The Role of Food in Children's Literature   | English                 | <b>Ann Martin</b><br>University of Saskatchewan<br><b>Wendy Roy</b><br>University of Saskatchewan                  |
| W1 | <b>Akanksha Gupta</b><br>Indian Institute of Technology Kanpur      | Waves and Instabilities in Geophysical Flows   | Waves and Instabilities in Geophysical Flows   | Mechanical Engineering  | <b>Anthony Wachs</b><br>University of British Columbia   |
| W2 | <b>Kajal Ingtipi</b><br>Indian Institute of Technology Guwahati     | Ultrasonic-mediated Synthesis of Lignin Nanoparticles and Their Application in the Development of Hydrogel Bio-nanocomposites. | Ultrasonic-mediated Synthesis of Lignin Nanoparticles and Their Application in the Development of Hydrogel Bio-nanocomposites. | Chemical Engineering    | <b>Mohammad Arjmand</b><br>University of British Columbia<br><b>Abbas Milani</b><br>University of British Columbia |
| W3 | <b>Rhea Mammen</b><br>National Law School of India University       | Towards Socially relevant legal Education: through curriculum mapping  | Towards Socially relevant legal Education: With special reference to curriculum of five year law course                        | Law                     | <b>P.M Vasudev</b><br>University of Ottawa<br><b>Sara Slinn</b><br>York University                                 |

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| W4 | <b>Nimisha Joshi</b><br>English and Foreign Languages University | French: Nelly Arcan : Corps abandonné et corpus réinventé,<br>English: Nelly Arcan : Abandoned body; embodying literature | French: Corps abandonné et corpus réinventé chez Nelly Arcan, English: Nelly Arcan : Abandoned body; embodying literature | French | <b>Mathieu Boisvert</b><br><b>Isabelle Miron</b><br>Université du Québec à Montréal<br><b>Marie Mc Andrew</b><br>Université de Montréal |
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### c. SRSF: Student

| Sr.No. | Name of the Applicant and Institution                                | Topic of Project   | Discipline             | Proposed institution/university for affiliation  |
|--------|--|--|------------------------|--|
| 1      | <b>Anuhya Nalluri</b><br>University of Hyderabad                     | Construction & Validation of three dimensional profile of tear lipid layer: A quantitative approach    | Health Sciences        | <b>Lyndon Jones</b><br>University of Waterloo  |
| 2      | <b>Anurag Agarwal</b><br>Indian Institute of Technology Kharagpur    | Numerical Modelling in Microfluidics   | Mechanical Engineering | <b>Mohammed Jalal Ahamed</b><br>University of Windsor<br><b>Jean-Pierre Hickey</b><br>University of Waterloo |
| 3      | <b>Kunal Kumar</b><br>Indian Institute of Technology Kharagpur       | Design of economically feasible Osmotic Power (Renewable Energy) technologies for developing countries | Mechanical Engineering | <b>Mostafa H.</b><br>University of Guelph  |
| 4      | <b>Pardeep Kumar</b><br>Indian Institute of Technology, Roorkee      | Modelling complex fluids in enhanced oil recovery  | Mechanical Engineering | <b>Carlos Frederico</b><br>University of Alberta   |
| 5      | <b>Hrishikesh Danawe</b><br>Indian Institute of Technology Kharagpur | Design and Dynamics of Stick-Applicator Assembly in Railway Applications                               | Mechanical Engineering | <b>Anasavarapu Srikantha Phani</b><br>University of British Columbia   |

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| 6  | <b>Arun Dayanandan</b><br>Concordia University                         | Characterizing Invasive Behavioural Syndromes Between Colour Morphotypes In An Endemic Invasive Snail In Cardamom Plantations For Conservation Management In The Western Ghats Biodiversity Hotspot | Biology                        | <b>Mohammed Latif Khan</b><br>Hari Singh Gour Central University   |
| 7  | <b>Raunak Swarnkar</b><br>Indian Institute of Technology Gandhinagar   | Combining Volumetric and Surface-based Methods for Neuroimage Registration  | Computer Science & Engineering | <b>Tanya Schmah</b><br>University of Ottawa  |
| 8  | <b>Aritra Das</b><br>Indian Institute of Technology Kanpur             | Secure Quantum Computing on the Cloud   | Physics                        | <b>Barry Sanders</b><br>University of Calgary  |
| 9  | <b>Nilotpal Chakraborty</b><br>National Institute of Technology Trichy | Design of Tilt rotor UAV  | Mechanical Engineering         | <b>Biao Zhou</b><br>University of Windsor  |
| 10 | <b>Rohit Jambhulkar</b><br>Indian Institute of Technology Guwahati     | Management of aquatic weeds using vermicoposting methods  | Civil Engineering              | <b>Brandon H. Gilroyed</b><br>University of Guelph<br><b>J. Patrick A.</b><br>University of Calgary        |
| 11 | <b>Samruddhi Damle</b><br>Indian Institute of Technology Gandhinagar   | Exogenous and Endogenous Attentional Cueing of Emotional Valence: Modulation by Probability   | Neuroscience                   | <b>Britt Anderson</b><br>University of Waterloo  |
| 12 | <b>Julie VanBerkel</b><br>University of Guelph                         | Understanding the Policies and Procedures regarding Sexual Violence at Higher Education Institutions in India   | Gender Studies                 | <b>Bharathi Harishankar</b><br>University of Madras<br><b>Lilian I Jasper</b><br>Women's Christian College |
| 13 | <b>Manvinder Gill</b><br>McMaster University                           | Perceptions of Alcohol in Colonial India, Masculinity, and Sikhism  | Religion and Religious Studies | <b>Radhika Chopra</b><br>Delhi University  |
| 14 | <b>Elijah Dalton</b><br>University of Guelph                           | Understanding Monetary Aid in Post-Disaster Children's Outcomes   | Social Sciences                | <b>Aditya Raj</b><br>IIT Patna   |

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| 15 | <b>Rajat Maheshwari</b><br>Indian Institute of Technology Kharagpur | Performance and Information Content of Merger and Acquisition (M&A) Deals   | Corporate Finance and Probability of Informed Trading | <b>Shantanu Dutta</b><br>University of Ottawa       |
| W1 | <b>Ojasvi Verma</b><br>IIT Gandhinagar                              | Use of plant proteins in designing nanostructures for the delivery of bioactive compounds and in studying the behaviour of the protein nanoparticles in simulated physiological environments. | Chemistry   | <b>Chibuike C. Udenigwe</b><br>University of Ottawa |
| W2 | <b>Ekagra Ranjan</b><br>Indian Institute of Technology Guwahati     | Human pose estimation and tracking for the game of ice hockey using deep learning   | Computer Science & Engineering                        | <b>David A. Clausi</b><br>University of Waterloo    |
| W3 | <b>Tiasa Basuroy</b><br>University of Calcutta                      | Christianisation In Orissa: Canadian Baptists And Savaras Experience, 1860-1960   | History   | <b>Neilesh Bose</b><br>University of Victoria       |