

## Australia–India Strategic Research Fund (AISRF) Early- and Mid-Career Fellowships 2019 Grant Recipient List

The Australia–India EMCR fellowships provide support (up to A\$16,500) for Australian scientists to travel to India and work with leading researchers at major Indian science and technology organisations for between one and three months.

The fellowships also facilitate long-term science, technology and innovation collaboration between Australia and India by developing researchers' expertise in international collaboration and fostering long-term relationships between Australian and Indian researchers. This increases Australian researchers' understanding of Indian culture, particularly science and research practices and systems, while developing leadership skills as future 'science ambassadors' for Australia.

The EMCR fellowships are a component of the AISRF, a platform for bilateral collaboration in science jointly managed and funded by the governments of Australia and India.

This program is supported by the [Department of Industry, Science, Energy and Resources](#).

Name and Organisation	Project	Host Institute
<b>Dr Ulf Schmitz</b> <b>University of Sydney</b>	<i>Establishing an Australian-Indian Alliance to find cures for haematological diseases</i>	<ul style="list-style-type: none"> <li>– Indraprastha Institute of Information Technology, New Delhi</li> <li>– Christian Medical College, Vellore</li> </ul>
<b>Dr Julie Ardley</b> <b>Murdoch University</b>	<i>Investigating the role of tRNA modification and other molecular determinants of root nodule bacteria tolerance to environmental stresses</i>	<ul style="list-style-type: none"> <li>– Indian Institute of Science, Bengaluru</li> <li>– J.N. Vyas University, Jodhpur</li> </ul>
<b>Dr Sridevi Sureshkumar</b> <b>Monash University</b>	Molecular mechanisms of epigenetic silencing caused by intronic repeat expansions.	<ul style="list-style-type: none"> <li>– Indian Institutes of Science Education and Research, Mohali</li> <li>– Indian Institute of Sciences, Bengaluru</li> </ul>
<b>Dr Chandan Karmakar</b> <b>Deakin University</b>	<i>Wearable sensor devices for monitoring chronic diseases</i>	<ul style="list-style-type: none"> <li>– Indian Institute of Technology Madras, Chennai</li> </ul>
<b>Dr Gregory Martin</b> <b>The University of Melbourne</b>	<i>Intensified primary production of protein feed and oils from microalgae</i>	<ul style="list-style-type: none"> <li>– Indian Institute of Technology, Kharagpur</li> <li>– Reliance Industries Limited, Navi Mumbai</li> </ul>
<b>Dr Yixiang Gan</b> <b>The University of Sydney</b>	<i>Optimising thermal energy storage with phase change materials: with applications to solar energy storage in Australia and India</i>	<ul style="list-style-type: none"> <li>– Indian Institute of Technology Madras, Chennai</li> <li>– Indian Institute of Technology, Bhubaneswar</li> </ul>

<b>Dr Nisa Salim Deakin University</b>	<i>Multi-functional carbon fibre composites towards quality assurance, predictive maintenance and in-service damage detection</i>	<ul style="list-style-type: none"> <li>– National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram</li> <li>– Mahatma Gandhi University, Kottayam</li> </ul>
<b>Dr Vini Gautam Australian National University</b>	<i>Nanotechnology meets Neuroscience: Novel scaffolds that engineer the growth and function of neurons to understand brain disorders</i>	<ul style="list-style-type: none"> <li>– Indian Institute of Science, Bengaluru</li> </ul>
<b>Dr Sambasivam Periyannan Australian National University</b>	<i>Building food security in India through rapid incorporation of resistance to devastating cereal rust diseases</i>	<ul style="list-style-type: none"> <li>– Punjab Agricultural University, Ludhiana</li> </ul>
<b>Dr Douglas Tait Southern Cross University</b>	<i>Quantifying the role of groundwater nutrient inputs into the Indian Ocean</i>	<ul style="list-style-type: none"> <li>– Engineering Indian Institute of Technology, Kanpur</li> </ul>
<b>Dr Vaibhav Shah University of New South Wales</b>	<i>Investigating molecular biology of HIV-1 subtype C: Implications for the increasing global diversity of HIV-1 subtypes.</i>	<ul style="list-style-type: none"> <li>– Jawaharlal Nehru Centre for Advanced Scientific Research Bengaluru</li> </ul>
<b>Dr Laszlo Irinyi Westmead Institute for Medical Research</b>	<i>NGS and DNA barcoding of nonsporulating fungi</i>	<ul style="list-style-type: none"> <li>– Kasturba Medical College, Manipal</li> <li>– Manipal Academy of Higher Education</li> </ul>
<b>Dr Md Apel Mahmud Deakin University</b>	<i>Robust distributed intelligent controller design for distributed energy resources in microgrids</i>	<ul style="list-style-type: none"> <li>– Malaviya National Institute of Technology</li> <li>– Indian Institute of Technology, Bombay</li> </ul>
<b>Associate Professor Ahmed Moustafa Western Sydney University</b>	<i>Designing a computational model of Cortex-Basal Ganglia-Cerebellum interactions to optimize drug choice and dosage for Parkinson's disease</i>	<ul style="list-style-type: none"> <li>– Indian institute of Technology, Madras</li> <li>– International Institute of Information Technology</li> </ul>
<b>Dr Dilan Robert RMIT University</b>	<i>Nanoscience based construction materials for unsealed roads</i>	<ul style="list-style-type: none"> <li>– Jagran Lakecity University</li> <li>– MANIT University</li> </ul>