



## Dr. R. Muraliraja

Associate Professor - Research  
Mechanical Engineering

### Contact

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### About Me

Dr. Muraliraja Rajaraman is an accomplished academician and researcher in Mechanical Engineering, currently serving as Associate Professor and Associate Dean (International Affairs) at VISTAS, Chennai. With a Ph.D. in Surface Coatings and postdoctoral research in metal matrix composites, he specializes in electroless coatings, aluminum and magnesium composites, and advanced manufacturing techniques. He has published extensively in high-impact journals not limited to 30 SCI indexed journals, 5 patents, supervised multiple Ph.D. scholars, secured research funding, and contributed to international academic collaborations. His diverse skill set spans teaching, research, project execution of worth Rs 3.56 cr, academic leadership, and global outreach.

### Research Interests

- Metal and Non metal Coatings
- Optimization
- Development of Drones
- Composite Materials
- Product Development
- Electroless Coatings
- Materials Characterization

### Education

- Post Doctorate in Development of Composites Oct 2017 — May 2018 Sultan Qaboos University, Muscat, Oman Mechanical and Industrial Engineering [with (VISTAS) support]
- PhD (Full Time) in Mech. Engg. (Surface Coatings) Dec 2012 — April 2017 Pondicherry Engineering College, Pondicherry University, India. Mechanical Engineering
- M.Tech in Product Design & Manufacturing July 2010 — May 2012 Pondicherry Engineering College, Pondicherry University, India Product Design and Manufacturing
- B.Tech in Mechanical Engineering June 2006 — May 2010 Bharathiyar College of Engineering and Technology, Pondicherry University, India

### Research Achievements

- ❖ Merit Scholarship from MHRD during PhD
- ❖ Fully Funded Post Doctorate Program
- ❖ Publication in SCI indexed journal 25
- ❖ Publication in SCOPUS indexed journal 15
- ❖ International Conference attended 15
- ❖ Book Chapters 3
- ❖ Patents granted 2 submitted 5
- ❖ Citations 1600
- ❖ H-index 17
- ❖ I-index 22

### Funded Projects

1. STI Hub to improve the livelihood of SC community in thellar block thiruvannamalai, DST NewDelhi, Rs. 2,66,00,000/-, 2023-2026.
2. AICTE IDEA LAB, AICTE, Rs. 90,00,000/- 2025-2027.

### Consultancy Projects

1. Mechanical Properties of Silicon Carbide reinforced Aluminium Metal Matrix Composites, HITEC Industrial Fan and Systems, Rs. 2,95,000/-, 2019.
2. Faculty Development Program on "Design Thinking and Creativity for Educators" Sponsored by AICTE ATAL conducted from 27.09.2021 to 01.10.2021. (Rs. 93,000/-)
3. National Workshop on "Instigation and Innovation in teaching practices through IQAC" Sponsored by NAAC organizing from 30.01.2022 to 03.02.2023. (Rs. 30,000/-)
4. Faculty Development Program on "Drones and Development: Building Faculty Capacity for Sustainable Solutions" Sponsored by AICTE ATAL conducted from 21.10.2024 to 26.10.2024. (Rs. 3,50,000/-)
5. Faculty Development Program on "Envisioning Excellence: Advanced Design Thinking and Innovation in Research and Development" Sponsored by AICTE ATAL conducted from 18.11.2024 to 30.11.2024. (Rs. 6,00,000/-)