

Brief CV

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Secretary, KSCST

Professor

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EDUCATION:

B.E., Malaviya Regional Engineering College, Jaipur, 1990

M.S., University of Kentucky, Lexington, USA, 1992

Ph.D., University of Nevada, Reno, USA, 1996

APPOINTMENTS:

- Professor, Materials Engineering, IISc, 2009 onwards
- Visiting Professor, University of South Africa, 2017 onwards
- Associate Faculty, Bioengineering Program, IISc, 2012 onwards
- Visiting Professor, University of Johannesburg, 2012-14
- Associate Professor, Materials Engineering, IISc, 2003-09
- Associate Faculty, Materials Research Centre, IISc, 2007-10
- Associate Chairman, Centre for Scientific and Industrial Consultancy, IISc, 2006-11
- Assistant Professor, Materials Engineering, IISc, 1997-2003
- Research Associate, University of Nevada, Reno, 1996-97
- Secretary, Karnataka State Council for Science and Technology (KSCST), Sep 2019

FELLOWSHIPS:

- Fellow, Indian National Academy of Engineering
- Fellow, Royal Society of Chemistry, London

AWARDS AND HONORS:

- Distinguished Professional, All India Council for Technical Education, 2024
- Distinguished Alumni Award, MNIT, Jaipur, 2022
- DAAD Research Ambassador, 2022
- Prof. Rustom Chokshi Award for Excellence in Research, Indian Institute of Science, 2021
- Platinum Jubilee Award Lecture (Materials Science), 107th Indian Science Congress, Bangalore, 2020
- MRSI-ICSC Award, Materials Research Society of India, 2018
- National Bioscience Award for Career Development, Department of Biotechnology, Government of India, 2009
- MRSI Medal, Materials Research Society of India, 2007
- Prof. Satish Dhawan Young Scientist Award, Government of Karnataka, India, 2005
- Humboldt Research Fellowship, Alexander von Humboldt Foundation, Germany, 2004
- INSA-DFG Visiting Fellowship, Indian National Science Academy, 2003
- Metallurgist of the Year Award, Ministry of Steel, Government of India, 2003
- Biotech Product & Process Development and Commercialization Award, Department of Biotechnology, Government of India, 2003

AREAS OF RESEARCH

Our research group is working on application of nanotechnology for biomedical and environmental applications. Currently we are working on the following topics:

- Developing new generation of drug delivery systems for gene and anticancer drugs
- Polyelectrolyte/nanoparticle multilayers for environmental applications
- Nanostructured multilayers for sensing applications
- Development of 2D and 3D structures as fillers in epoxy nanocomposites.