

Brief Bio-data of Prof. Ashwini Sood

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□ Profile Summary

Prof. Ashwini Sood is an accomplished academician and researcher with over **30 years of experience in Chemical Engineering**. His specialization lies in **Chemical Reaction Engineering, Emulsion Polymerization Processes and Reactors, and Rheology of Dispersions**.

He holds a **B.Tech. from IIT Kanpur (1988)**, **M.S. from Lehigh University, USA (1991)**, and **Ph.D. from U.P. Technical University, Lucknow (2006)**. Prof. Sood has made significant contributions to **emulsion polymerization process modeling and industrial applications in paints, adhesives, and sustainable chemical processes**.

□ Awards & Recognitions

- **Marquis Who's Who in Science and Engineering** (2007, 2011–12, 2016–17)
 - **Bharat Jyoti Award** (2017)
 - **The Best Citizens of India Award** (2017)
 - **Bharat Vikas Award** (2017)
 - **IChE NRC Award – 3rd Best Paper** (*Indian Chemical Engineer*, 2017)
 - **Lifetime Achievement Awards** (2018, 2019)
 - **Wall of Fame Certificate of Recognition** (2019)
 - **Chemical Weekly Award – Best Paper** (*Indian Chemical Engineer*, 2020)
 - **IChE NRC Award – Best Paper** (*Indian Chemical Engineer*, 2020)
 - **Kuloor Memorial Award – Best Paper** (*Indian Chemical Engineer*, 2020)
 - **Bharat Gaurav Puruskar** (2024)
 - **VIRA Award of Excellence in Chemical Engineering** (2024)
 - **Outstanding Researcher Award** (2025)
 - **Inspiring Citizens Award** (2026)
 - **World Research Fellow of London** (2026)
 - **IMRF Bharat Vidya Ratna Award** (2026)
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□ Research Interests

- Chemical Reaction Engineering
- Emulsion Polymerization Process Modelling
- Miniemulsion Polymerization Process Modelling

- Rheology of Dispersions
 - Multiphase Systems
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□ Research Contributions

- **42 research papers** in peer-reviewed national and international journals and conference proceedings
 - **28 oral and poster presentations** at conferences
 - **Reviewer for 18 international journals**
 - **Editorial Board Member** of three academic journals
 - **Session Chair** at international conferences
 - **Consultant to Bajrang Petrochemicals Limited and Sustainable Systems Design Enterprises**
 - **Editor, Emerging Trends in Chemical Engineering, STM Journals, India**
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□ Student Supervision

- **Ph.D. Theses Supervised:** 1 (currently guiding 2)
 - **M.Tech. Theses Supervised:** 23 (currently guiding 1)
 - **Undergraduate Teaching:** Over **2,500 students** taught
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□ Professional Affiliations

- **Founder Member**, ISR Leaders Club
 - **Fellow** (FWRA), World Researchers Associations, Indore, India
 - **World Research Fellow of London** (WRFL), Universal World Research Innovation Centre (UWRIC) London, United Kingdom.
 - **Fellow**, Institution of Engineers (India)
 - **Life Member**, Indian Institute of Chemical Engineers (IChE)
 - **Active Contributor** in national and international research forums
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Notable Contributions

Prof. Sood's research in **polymerization process modeling** has led to advanced studies on **particle size distribution, nucleation kinetics, growth kinetics and coagulation effects**, and **bimodal multiphase systems**. His work finds industrial application in **paints, emulsion adhesives**, and green and **sustainable processes**.
