

SESHADRI KUMAR

Specializes in: Engineering Program Management for Chemical Industry

EDUCATION AND CERTIFICATIONS

1. Ph.D., University of Utah, USA, Chemical Engineering (1999)
2. M.S., University of Utah, USA, Chemical Engineering (1994)
3. B.Tech., IIT Bombay, Chemical Engineering (1990)

BRIEF PROFILE

1. Dow Chemical R&D – Pune – Chemical Engineering Process Innovation – 6 years
2. Achira Labs Pvt. Ltd – Bangalore – Medical Device Design and Development – 1 year
3. Emerson Innovation Center – Pune – R&D of Compressor Systems – 1 year
4. CD-adapco India Pvt. Ltd – Bangalore – Training for Computational Fluid Dynamics – 3 years
5. University of Utah – Salt Lake City, USA – Academic R&D – 6 years
6. MV Jayaraman College of Engineering – Bangalore – Teaching – 1 year

PROJECTS EXECUTED AND MENTORED

1. Developed a new process for the manufacture of oxygenated solvents for Dow Chemical and obtained a patent for the same (**US Patent # 10,843,992**)
2. Managed a 7-member team to develop a medical diagnostic device for point-of-care testing of blood for analytes like thyroid function, Vitamin D, and Testosterone.
3. Developed the scaled-up reactor design for Crude Terephthalic Acid (CTA), a precursor to PET, from 120 kta to 1000 kta.
4. Developed novel reactors for the Epoxy business.

TRAINING Delivered / Consultancy Assignments

1. Training on use of Computational Fluid Dynamics tools (STAR-CD/STAR-CCM+) usage (basic and advanced) to a range of companies, including Behr India, Subros, UCAL Fueltech, General Motors, General Electric, BHEL, CABS, Eaton, Rail Coach Factory – Kapurthala, NTPC, EMCON, IIT Madras, IIT Bombay, IIT Guwahati, MS Ramiah IT, JNTU Anantapur, and many more.
2. Classes taught to undergraduate students on Chemical Engineering fundamentals including Fluid Mechanics, Pollution Control, Novel Separation Techniques, and Computer Applications in Chemical Engineering.