


## Short Profile:

|       |   |  |
|-------|---|--|
| Name  | Dr. Mayur Sutaria   |  |
| Photo |    |  |
| Brief | <p><b>Dr. Mayur Sutaria</b> is a Professor, and heads E-Foundry and Materials Processing Laboratories in Mechanical Engineering Department at Charotar University of Science &amp; Technology, Changa, Anand. He earlier completed his M.Tech from M.S. University of Baroda in 2003, followed by Ph.D. from Indian Institute of Technology, Mumbai in 2013. He has developed computationally efficient solidification models to visualize 3-dimensional feed-paths inside industrial castings, as a part of Ph.D. work from IIT Bombay. Being a <b>co-investigator</b> in the <b>E-foundry project</b>, he has developed Gradient Vector Method (GVM), a computationally efficient and robust method to do online (web-based client-server architecture) casting simulation. He has organized four E-foundry workshops for academicians &amp; foundry engineers, and handled technical sessions in eight workshops organized across the India. Presently, he is working on two funded research projects. The first project titled “Time-varying Performance Evaluation of Boundary Mould Elements (Feed-aids) for Effective Application of CAD and Simulation Technologies in Indian Foundries” <b>funded under Research Promotion Scheme (RPS) of AICTE as a Principal Investigator</b>. The second project titled “SMART Foundry 2020” <b>funded under Technology Systems Development Programme (TSDP) scheme of DST as a Co-Investigator</b>. This is a multi-disciplinary, multi-institutional projects to bridge the 'valley of death' from prototype to commercializable technology. It involves exploration of emerging technologies in foundry sector like 3D printing, robotics &amp; automation, low-cost sensors, cloud computing and data analytics to reinvent the metal casting process and leap-frog to the next generation. Being a Co-Investigator of the project, he is responsible to develop automatic tooling &amp; method design tools and process development for making metal composites through liquid metal processing route. He has</p> |  |

|                               |  |
|-------------------------------|--|
|                               | published more than 25 papers in reputed journals and conferences. He has couple of paper published in international conference proceedings and travelled to UK for presenting paper in MATADOR 2011 conference. |
| Email address                 | mayursutaria.me@charusat.ac.in   |
| Linked in address             | <a href="https://www.linkedin.com/in/dr-mayur-sutaria-a342b820/">https://www.linkedin.com/in/dr-mayur-sutaria-a342b820/</a>  |
| Website or blog Address       |  |
| Areas of Interest (max three) | Metal Castings and Composites; Design for Manufacturing; Computational Methods for Thermal and Fluid Engineering   |