



Dr. B. Ravi is a product of three well known institutions: *NIT Rourkela* where he did his B.E. in 1986, *IISc Bangalore* for Masters and Ph.D., and *IIT Bombay*, where he is *Institute Chair Professor* of Mechanical Engineering. He held visiting appointments at West Virginia (in 1996), Purdue University (in 2006), and currently at the *National Institute of Advanced Studies, Bangalore* (June-Nov 2016).

Prof. Ravi works in two areas: *metal casting* and *medical devices*, and heads the twin labs *E-Foundry* and *BETiC* with several multi-disciplinary multi-institution R&D projects with over Rs. 50 crore of R&D funding. He has guided 14 PhD & 75 Masters students, published 245 technical papers, filed 17 patents, and a book 'Metal Casting' with 10,000 copies in circulation. He gave 300 talks in conferences and institutes, and conducted 60 training courses benefitting over 2000 engineers and teachers.

During the last 25 years, Prof. Ravi developed several novel technologies: *design for castability* (in 1992), *rapid tooling* (1996), *3D printed medical models* (2006), and *Cloud-based simulation* (2012). His *AutoCAST* software is used in 100+ SME foundries. He has mentored several medical device innovators; three products have been transferred to industry: *tumour knee prosthesis*, *flexible laparoscope*, and *orthopedic surgery planner*. His Cloud-based *E-Foundry* has over 60,000 visitors worldwide.

The above work won several prestigious awards, such as *DST-Lockheed Martin India Innovation Gold Medal*- twice, and covered in the media. His book: 'Made in My India: The Past, Present and Future of Indian Manufacturing Industry', received an award by then-Prime Minister Shri A.B. Vajpayee in 2003. Prof. Ravi represented India thrice at *World Foundry Congresses*: in Germany (1989), USA (1996) and Spain (2014). In the last three years, he was invited by top institutes in UK, USA and Taiwan to share his thoughts on collaborative translational research.

At the national level, Prof. Ravi serves as the Vice President of Governing Council of *CMTI Bangalore*, and is advisory committee member for several Government agencies (like *DST*, *DBT* and *DHI*), engineering and medical institutes, and journal boards.

Prof. Ravi is committed to indigenous product innovation; working with teachers to enhance the employability of students in the manufacturing sector; and contributing to thought leadership and policy-making at various levels.

Prof. Ravi is also a poet, painter and photographer - mostly limited to PowerPoint slides these days, and enjoys trekking (recently to *Kailash-Manasarovar*).