

## Heartiest Congratulations to **Mr G. Bharat Reddy** for Receiving the **INAE Young Engineer Award 2025**

INAE ANNUAL CONVENTION 2025  
**INAE YOUNG ENGINEER AWARD 2025**  
**Mr. G. Bharat Reddy**  
*Scientific Officer E, Mechanical Metallurgy Division  
Bhabha Atomic Research Centre, Mumbai*

Mr. Bharat Reddy has made noteworthy contributions in the field of Mechanical Metallurgy towards the development of novel thermo-mechanical processing strategies for critical nuclear components. His research towards enhancing the diametrical creep resistance of Zr-Nb alloys for direct irradiation in pressurized water reactors (DIIWRs) has directly led to the development of a specimen with thermodynamically optimized crystal plasticity model. His research has revealed primary transformation pathways in Zr-Nb alloys, deepening the understanding of phase transition mechanisms. His research has established the first-of-its-kind relationship between deformation and transformation, assisting in the development of DIIWRs. The research has optimized the diametrical creep resistance of Zr-Nb alloys, a primary objective of the research. The research has demonstrated the inclusion and a

The Department of Metallurgical and Materials Engineering, MGIT, proudly and warmly congratulates **Mr Bharat Reddy**, Scientific Officer, BARC, and distinguished alumnus of MME, MGIT (Batch of 2014), on being honoured with the prestigious **INAE Young Engineer Award**.

This outstanding achievement reflects not only his technical excellence and professional dedication but also his passion, perseverance, and commitment to advancing engineering for the benefit of society. The department feels deeply proud of his success, seeing it as an inspiration to current students and a shining example of what our alumni can achieve, and extends its heartfelt best wishes for his continued growth, impact, and many more laurels in the years ahead.

**Scientific Officer, Bhabha Atomic Research Centre  
(MME Alumnus, 2014)!**