



Dr. Shubham Saurabh is a Scientist-C in the Bridge Engineering and Structures Division at CSIR-Central Road Research Institute (CSIR-CRRI), New Delhi. He also serves as an Assistant Professor at the Academy of Scientific and Innovative Research (AcSIR). His research spans bridge engineering, structural health monitoring, computational mechanics, mechanical metamaterials, topology optimization, and the applications of artificial intelligence in bridge engineering.

Prior to joining CSIR-CRRI, Dr. Shubham was selected as a Postdoctoral Researcher at the Indian Institute of Technology (IIT) Kharagpur. He obtained his Ph.D. in Structural Engineering from the Indian Institute of Technology (IIT) Roorkee and his M.Tech. in Structural Engineering from the National Institute of Technology (NIT) Hamirpur.

Earlier in his career, Dr. Shubham worked as a Junior Research Fellow (JRF) and Senior Research Fellow (SRF) for three years on a Defence Research and Development Laboratory (DRDL), DRDO-sponsored research project. He has also served as a Guest Lecturer at Pusa Institute of Technology and G.B. Pant Institute of Technology, New Delhi, where he contributed to undergraduate engineering education.

Dr. Shubham has received several prestigious awards and fellowships in recognition of his research contributions, including the Young Scientist Award from the Indian Society of Theoretical and Applied Mechanics (ISTAM) by IIT Kharagpur, the ANRF/SERB International Travel Scheme (ITS) Award, the International Conference Travel Award, conference travel grants from IIT Roorkee, and Ministry of Education fellowships during both his M.Tech. and Ph.D. studies.

His research interests include structural health monitoring, bridge engineering, finite element model updating technique, topology optimization, structural dynamics, uncertainty quantification, impact mechanics, mechanical metamaterials, machine learning, and high-performance scientific computing. He has developed an open-source computational framework for static, transient, modal, and random vibration analyses of large-scale structures.

Dr. Shubham has authored numerous first-author publications in leading Q1 SCI-indexed journals, with an average journal impact factor of over 9.0, including journal like Computer Methods in Applied Mechanics and Engineering. His research has been presented at 18 international conferences, including events held in the United Kingdom and Italy.