

MANOJ SINGH BISHT

PhD - Machine Design (*Pursuing*)
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RESEARCH INTERESTS

Fatigue & Fracture Analysis, Additive Manufacturing

EDUCATIONAL QUALIFICATIONS

| EXAMINATION | YEAR OF PASSING | NAME OF UNIVERSITY/ BOARD | CGPA/CPI/% MARKS | GRADE/ DIVISION |
|---|-----------------|---------------------------|------------------|-----------------|
| M.Tech (Machine Design) | 2017 | NIT Raipur | 7.47 | I st |
| B.Tech (Mechanical and Automation Engineering) | 2014 | GGSIPO, Delhi | 67.91 | I st |
| AISSCE (12 TH) | 2010 | CBSE | 87.5 % | I st |
| AISSE (10 TH) | 2008 | CBSE | 89.4 % | I st |

CURRENT TOPIC OF STUDY

Fatigue and Fracture behaviour of Additively Manufactured Aluminium alloys

PUBLICATIONS:

Journal

- Majumdar, S., A. D. Gandhi and **M. S. Bisht**. "Low cycle fatigue behaviour of a ferritic steel strengthened with nano-meter sized precipitates." *Materials Science and Engineering: A* 756 (2019): 198-212. **(SCI Impact Factor: 4.652)**
- **Bisht, M. S.**, Shrabani Majumdar, and Raj Kumar Sahu. "Microstructural Characterization of an 800 MPa single-phase ferritic Advanced High Strength Steel (AHSS)." *International Journal of Applied Engineering Research* 13.6 (2018): 230-237.

Conference:

- **Manoj Singh Bisht**, S. Majumdar, R.K. Sahu, Role of dislocation structure in LCF failure of an 800 MPa ferritic steel strengthened with nano-precipitates, Proceedings of FFIA-2017, Jadavpur University

RESEARCH INTERNSHIP:

Organisation – R&D Laboratory, TATA Steel

Project Title – Low Cycle Fatigue Behaviour of an 800MPa High Strength Ferritic Steel

Guide: Dr Shrabani Majumdar (Principal Scientist, R&D Laboratory TATA Steel)

Duration: June 2016 – June 2017

PROFESSIONAL EXPERIENCE:

| S.No | Position Held | College/University | Responsibility | From | To |
|-------------|----------------------|---------------------------|-----------------------|-------------|------------|
| 1 | Assistant Professor | KIET Ghaziabad | Teaching | 08/08/2017 | 31/12/2019 |

Courses Taught: Engineering Mechanics, Machine Design, Engineering Drawing

TEACHING ASSISTANTSHIP

(At IIT Roorkee)

- Mechanics of Material Lab

TECHNICAL SKILLS

- Design and Modeling Software – CATIA, SolidWorks
- Analysis Software – ANSYS
- Programming Languages – MATLAB, C++
- Material Characterization using Optical Microscope, Scanning Electron Microscope (SEM) and Electron Back Scattering Diffraction Technique (EBSD).
- Mechanical Testing: Tensile Testing, Low Cycle Fatigue(LCF) testing, High Cycle Fatigue (HCF) testing

AWARDS/SCHOLARSHIPS

- Ministry of Human Resource & Development (MHRD) scholarship to pursue doctoral studies at IIT Roorkee (2020)
- Ministry of Human Resource & Development (MHRD) scholarship to pursue Masters at NIT Raipur (2015)