Curriculum Vitae

Shashwat Kumar Mishra, Master of Technology

Department of Metallurgical and Materials Engineering

Indian Institute of Technology, Kharagpur

Personal Information

Gender:	Male	
Marital status:	Single	
Date of Birth:	5th June, 1994	
Languages known:	Odia (native), English, Hindi	
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Career Objective

To obtain a challenging position in metallurgical industry that encourages constant learning and a contributes to this by research and technology.

Educational Qualification

Year of Passing	Degree	University/Board	CGPA or Percentage
2020	Master of Technology	IIT Kharagpur	8.8/10
2015	Bachelor of Technology	Indira Gandhi Institute of Technology, Sarang,Odisha	8.3/10
2011	Higher Secondary Examination	Council of Higher Secondary Examination	85%
2009	High School Certificate Examination	Board of Secondary Education	81%

Industrial Experience

Associate Manager at Jindal Stainless Limited

I have worked as an associate manager at Jindal Stainless Limited. I was working as a HAPL CAPL Planner in Customer Supply Management (CSM) dept from 01.07.2015 to 30.09.2017.

Vocational training in SAIL, RSP

I have done vocational training in SAIL, Rourkela Steel Plant during the period from June 17, 2013 to July 01, 2013

Research Experience

May 2019-May 2020: **Effect of annealing on the mechanical properties of $CoCrFeNiTa_{0.2}$ & $CoCrFeNiTa_{0.5}$ Eutectic High Entropy Alloy**, IIT Kharagpur, India

Adviser: Dr. Jayanta Das (Dept. of Metallurgical and Materials Engg., IIT, kharagpur)

The primary objective of this thesis is to achieve improved mechanical property by introduction of precipitation of a new phase in hypo and hyper eutectic HEA. Here, we anneal the sample for three different time period having same temperature to find the kinetics of growth of precipitate.

Aug 2014-April 2015: **Modification of microstructure and properties of Al-Si Hypereutectic alloy with in situ γ-Al_2O_3 particles,** IGIT Sarang, Odisha, India

Adviser: Mr. J. Majhi (Dept. of Metallurgical and Materials Engg., IGIT, Sarang)

Here we added Al_2O_3 particle which spherodizes the silicon phase from coarse polygonal and star like shape to fine blocky shape with smooth edges and corners. This change in microstructure results in better wear resistance and with a small decrease in hardness level which can be used in automobile industry. Low strength-to-weight ratio property can be beneficial in aerospace field as well.

Achievements

- Holder of rank **5** in the class of M. Tech. batch of 2020 with a CGPA of **8.8** in Department of Metallurgical and Materials Engineering, Indian Institute of Technology Kharagpur.
- Attained **5th** position in the class of B. Tech. batch of 2015 with a CGPA of **8.3** in Department of Metallurgy and Materials Engineering, Indira Gandhi Institute of Technology, Sarang, Odisha.
- Cleared Graduate Aptitude Test in Engineering (GATE) examination in Metallurgical stream with an **All India Rank of 161.**

- Secured a **band score of 7.0** in International English Language Testing System (IELTS) test.

Skills

Technical: Vickers hardness testing, Tensile testing (Instron 8862 servo-electric system), Optical microscopy (LEICA DM6000M model), Scanning electron microscopy (MERLIN FESEM)

Computational: THERMO-CALC (Binary phase diagram module, property diagram module), JMatPro, OriginPro 8, MS office, Xpert High Score

Teaching assistantship: X-ray and electron metallography laboratory (July 2018 to November 2018)

Relevant Courses

Thermodynamics of engineering materials, Programming and numerical methods in materials engineering, Diffraction techniques in materials engineering, Solidification Processing, Dislocation theory, X-ray and electron metallography laboratory, Computer programming lab, Metallurgical kinetics, Principles and techniques of materials characterization, Grain boundaries and interfaces, Phase Transformation and Phase Equilibria, Advanced Materials and Processed, Phase transformation lab

Interests and Activities

- Worked as event manager of various events like metallography and scavengio in **HORIZON, Annual Technical Festival, IGIT Sarang (2014).**
- Organised an **industrial visit to Narbheram Power and Steel Pvt. Ltd**, Dhenkanal (Sponge iron production by rotary hearth furnace).
- Member of college cricket team that won in sports meet 2013-14 NIT Rourkela
- Captain of JSL cricket team that participated in company sports meet 2017 Bhubaneswar.
- Hobbies include teaching, playing football, cricket, badminton and watching sports.

Declaration: I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Date: Sept 30th, 2020 Signature Shashwat Kr. Mishra

SHASHWAT KUMAR MISHRA