


MUKESH KUMAR DAS

Materials Science | M.Tech | IIT Kanpur | Associate Manager | Quality Assurance |
Steel Melting Shop | Jindal Stainless Hisar Limited | Metallurgy | Lean Six Sigma Black Belt

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Profile Summary:

My preferred areas of research are, Materials Characterisation and Mechanical Metallurgy. My previous research was based on the characterisation of Austenitic Stainless Steel and experimental observation of sensitisation. I have over three years of industrial exposure in stainless and mild steel industries in the areas of New Product Development, Quality Assurance & Steel Melting Shop Operations. Skilled in Quality Parameter Analysis, Materials Characterisation, Steel Making (EAF, Induction Furnace, AOD, VD & LRF), Minitab & Microsoft Office. Current highest qualification is a B.Tech focused in Metallurgical Engineering from BIT Sindri. A certified Lean Six Sigma Black Belt. Now I am pursuing M.Tech at IIT Kanpur in Materials Science & Engineering. Jointly working with Prof. Dr. Niraj Mohan Chawake & Prof. Dr. Nilesh Prakash Gurao in the project titled "Deformation Behaviour of Medium Entropy Alloys". I love playing volleyball and badminton.



Education

Year	Institution	Degree	Course	Class
2020-22	IIT Kanpur	M.Tech	Materials Science & Engineering	-
2013-17	BIT Sindri	B.Tech	Metallurgical Engineering	First
2011-13	DAVPS, Moonidih	Intermediate	Science	First
2011	ISL, Bhuli	Matriculation	-	First



Work Experience

Institute	Place	Date	Duration	Designation
1. Jindal Stainless Hisar Limited	Hisar	Sept, 2017- Aug 2020	3 Years	Associate Manager
2. Bhusan Power & Steel Limited	Jharsuguda	June, 2017 to Aug, 2017	3 months	Graduate Engineer Trainee

Quality Assurance, JSHL:

- New product feasibility and practice assessment.
- Monitoring defence and aerospace grades from raw material planning to customer end.
- Team leader of Steel Technology Group (STG), responsible for rapid analysis of defects and process irregularities.
- Mechanical testing and metallurgical characterisation of special stainless and mild steel grades.
- Inclusion rating of final products.
- Assessment and execution of trial plans.

Steel Melting Shop Operations, JSHL:

- Independent Shift-in-Charge for Induction Furnace, AOD (Argon Oxygen Decarburiser), EAF (Electric Arc Furnace), LRF (Ladle Refining Furnace) & VD (vacuum Degassing) Operations.
- Responsible for liquid steel production of stainless and special grade steels.
- Team leader of TPM and 5S in SMS-operations.
- Handling of PP module in SAP.



Internships & Trainings

Institute	Place	Date	Duration	Designation
1. GTRE-DRDO	Bangalore	June to July, 2016	45 days	Project Intern
2. TATA Steel	Jamshedpur	Oct to Nov, 2015	1 month	Vocational Trainee
3. SAIL	Bokaro	July to Aug, 2015	1 month	Vocational Trainee

DRDO Project Title:

Optimisation of post weld heat treatment (PWHT) parameters for electron beam welded unstabilized austenitic stainless steel.

TATA Steel Project Title:

Grain Growth Kinetics of Low Carbon Steel.



Paper/Poster Presentations

Event	Organizing Institute	Place	Date
1. NMD-ATM 2019	IIM Trivandrum Chapter & ISRO	Trivandrum	13 th -16 th Nov, 2019
2. NMD-ATM 2018	IIM Kolkata Chapter & TATA Steel	Kolkata	14 th -16 th Nov, 2018
3. NMD-ATM 2017	IIM Goa, Pune & Mumbai	BITS Pilani Goa Campus	11 th -14 th Nov, 2017
4. ICASPCT 2017	OPJU, Raigarh	Hyatt Raipur	22 nd -23 rd Mar, 2017
5. NMD-ATM 2016	IIM Kanpur Chapter & IIT Kanpur	IIT Kanpur	11 th -14 th Nov, 2016

Presentation Titles:

- Microstructural Evolution and Mechanical Properties Determination of Electron Beam Welded Austenitic Stainless Steel.
- Primary Stainless Steelmaking: Induction Furnace Vs. Electric Arc Furnace



Achievements

1. "Best Graduate Engineer Trainee-2017" awardee of JSHL.
2. Certificate of appreciation for establishment and chairmanship of IIM Students' Chapter, BIT Sindri.
3. Certificate of appreciation for convenership in organizing DHATVIKA'16.
4. Certificate of appreciation for chairmanship in organizing Dr. R. Prasad Memorial Metal Quiz 2016

Declaration: I, Mukesh Kumar Das, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.

Mukesh Kumar Das

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