



SMRUTI RANJAN MOHANTY

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CAREER OBJECTIVE

To work in a competitive environment that offers opportunities to apply my knowledge, acumen and skills in the field of polymer & nanotechnology, while giving emphasis on all round development and hence work towards growth and progress of both myself and the organization to meet the goals and missions.

RESUME SUMMARY

- ✧ Entry level polymer engineer seeks to build a long term professional career by investing the best of the technical and analytical knowledge in the field of polymer and nanotechnology.
- ✧ Excellent problem solving, IT and analytical ability.
- ✧ Possess the skill to create new opportunities and ability to execute ideas effectively.
- ✧ Expert in implementation of each step of project with motivational ability to lead a team.
- ✧ Eager to learn new technologies and methodologies.

CAREER HIGHLIGHTS

- ✧ Experience in taking ideas to lab scale development to successful implementation in commercial field.
- ✧ Experience of research, development, synthesis and characterization of polymers
- ✧ Commendable knowledge of polymer based coating, adhesive and thin films.
- ✧ Proficient in polymer characterization and use of analytical instrumentation including Water Contact Angle (WCA), Fourier Transformed Infrared (FTIR), Nuclear Magnetic Resonance (NMR), X-ray Diffraction (XRD), Differential Scanning Calorimetry (DSC), Thermogravimetric Analysis (TGA), Gel Permeation Chromatography (GPC), Scanning Electron Microscope (SEM), etc.
- ✧ Hands-on experience in development and study of nanoparticles.
- ✧ Articulate communication and presentation ability

ACADEMIC CREDENTIALS

M.Tech. in Polymer Nanotechnology

2016

CIPET: IPT

Bhubaneswar, Odisha

CGPA: 8.9

Thesis: Development of PDMS and Polyurethane based coating for foul release applications

B.Tech in Chemical Engineering

2014

Institute of Technology, Guru Ghasidas Central University

Bilaspur, Chhattisgarh

CGPA: 6.71

Project: A study of process kinetics and other parameters affecting hydrogen generation from aluminum and water

12th

2009

Kendriya Vidyalaya Paradeep Port

Paradeep, Odisha

Percentage: 72%

10th

2007

Kendriya Vidyalaya Paradeep Port

Paradeep, Odisha

Percentage: 85.2%

PROFESSIONAL EXPERIENCE

01.08.2016 - 28.12.2018: Junior Research Fellow, CIPET: SARP-LARPM

Project: Development of Concep Cone Internal Plate for Condensate Polishing Unit (CPU) Regeneration System For Talcher-K

Responsibilities:

- ✦ Synthesis of polyurethane based adhesive
- ✦ Performed the tasks of optimizing product manufacturing process
- ✦ Root cause analysis of the failures and overcome it with proper measures
- ✦ Successfully designed and fabricated the concep cone
- ✦ Leading the team for fabrication of the concep cone maintaining quality standards
- ✦ Accurate and concise preparation of project reports

29.12.2018– Present: Junior Research Fellow, CIPET: SARP-LARPM

Project: Transparent Heat Reflecting Coating (THR) Nano-hybrid Coating for Automobile Window Glasses

- Responsibilities:**
- ↻ Synthesis and characterization of polymer and nanoparticles
 - ↻ Synthesis of transparent heat reflecting coating
 - ↻ Prepared and maintained timely and accurate records of experiments, test results, conclusions, and project updates.
 - ↻ Operated and maintained laboratory instrumentation, in an efficient manner.

CONFERENCES

Poster presentation on “Development of PDMS and Polyurethane based Coating for Foul Release Applications” at International **Interdisciplinary Conference on Humanitarian Technology** 15th to 17th December 2016 Bhubaneswar

Poster presentation on “Synthesis and Characterization of Low Cost Non-Fluorinated Aqua Repellent Coating” at **International Conference on Advancement in Polymeric Materials** 11th to 13th February 2017 Bengaluru

Poster presentation on “Low Adhesion Coating Materials” at **APA International Conference on Advances in Polymer Science & Technology** 23rd to 25th November 2017 New Delhi

TRAINEESHIP EXPERIENCE

- ↻ Summer vocational training in SAIL, Bhilai..
- ↻ Winter training in Paradeep Phosphate Limited, Paradeep.

IT SKILLS

- ↻ Software: OriginPro 8, ChemDraw Pro 12.0, MestReNova 6.0.1, Adobe Photoshop CC 2015
- ↻ MS-Office (Word, Excel, PowerPoint)
- ↻ Programming: Sound knowledge in C, C++, Core Java,

SKILLS AND ACCOMPLISHMENTS

- ✧ Ability to lead, reach consensus, establish goals and attain results.
- ✧ Ability to maintain high standards of achievement, behavior, discipline and punctuality.
- ✧ Handling and protecting confidential and sensitive data with integrity.
- ✧ Flexible and can adapt to any situations quickly.
- ✧ Ability to deal with complicated situations in an amicable manner.
- ✧ Communicate effectively.
- ✧ Strong motivation, attention to detail, and ability to fully integrate into a high achieving team environment.

PERSONAL DOSSIER

Date of Birth: 30th December 1991

Languages Known: English, Hindi, Odia

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Permanent Address: S/o- Bijoy Kumar Mohanty, Qr No- NB/75, At- Nuabazar, Paradeep Port, Dist- Jagatsinghpur, Odisha, Pin- 754142

DECLARATION

I hereby declare that the above information is correct and true to the best of my knowledge and belief.

Smruti Ranjan Mohanty
(Signature)