

Tejal Ujwal Moon

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EDUCATION:

New Jersey Institute of Technology, Newark, NJ

Master of Science in Pharmaceutical Chemistry

Sep 2024 – Present

Smt. Kishoritai Bhoyar College of Pharmacy Kamptee, Nagpur, India

Bachelor's Degree in Pharmacy, CGPA – 7.53/10.0

Jan 2020 – Jun 2024

EXPERIENCE:

Everest Pharma, Pune, India

Dec 2023 – Jan 2024

Pharmaceutical Production Intern

- Validated equipment performance through rigorous testing procedures, ensuring adherence to GMP guidelines and achieving a 99.9% passing rate on validation tests, which exceeded the factory benchmark.
- Aided in upholding strict GMP compliance protocols throughout the drug manufacturing process, leading to zero regulatory citations during two internal audits, and improved documentation process.
- Updated and maintained production records and documentation, to ensure accuracy and completeness to facilitate smoother audits and process.

InVitro Research Solutions Pvt. Ltd., Bengaluru, India

Jun 2023 – Jun 2023

Analytical Developer Intern

- Evaluated and revamped analytical testing procedures for five drug candidates, increasing accuracy of High-Performance Liquid Chromatography results.
- Collaborated with cross-functional teams during weekly sprint meetings, streamlining analytical testing workflows, and resulting in the identification of contamination sources and a 25% reduction in batch failures.
- Developed and validated analytical methods for the quantification of active pharmaceutical ingredients (APIs) using HPLC, GC-MS, and LC-MS.
- Facilitated regular meetings with interdisciplinary team members to discuss project milestones, troubleshooting efforts, and analytical improvements.

Edufibrin Association with IIT Madras, Sarang, New Delhi, India (Online Mode)

Feb 2022 – Mar 2022

Vaccine Developer Intern

- Evaluated the correlation between specific coronavirus mutations and vaccine-induced antibody neutralization, leading to identification of five critical mutations impacting vaccine effectiveness and requiring further investigation.
- Understood and analyzed different viruses, bacteria, their respective strain's shape, characteristics, pathology for accurate and efficient vaccine development.
- Understood streamlined vaccine production processes for better output and minimum errors, and components of the immune system, including innate and adaptive immunity.

Lampros Tech Pvt Ltd, Ahmedabad, India (Online Mode)

May 2022 – Jul 2022

Subject Matter Expert

- Served as the go-to subject matter expert in chemistry and biology; findings led to the identification of the three biggest causes of vaccine instability during formulation.
- Designed and implemented a comprehensive solutions and study materials for smoother and better understanding.
- Accelerated project timelines by 20% through rapid resolution of complex chemistry and biology-related challenges, utilizing deep understanding of biochemical pathways.

Project Work:

Heavy Metal Sensing

- This project focuses on developing an accurate biosensor capable of detecting multiple heavy metals.
- It includes, developing and optimizing various types of microdroplets that exhibit fluorescent properties. These specialized droplets serve as sensitive platforms for detecting trace amounts of heavy metals.

Thermo-Cells

- This project studies thermo-cells as a means to generate electricity - these are the chemistry versions of solid-state thermo-electric cells.
- Heat is also generated from wastelands and the project aims to use the, otherwise wasted thermal energy, as an additional electrical resource.

SKILLS:

COMSOL Multiphysics	Good Laboratory Practice (GLP)	Pharmacy
ZEN Microscopy Software	Good Clinical Practice (GCP)	Microsoft Word
Biosensors	Laboratory Skills	Microsoft PowerPoint

VOLUNTEERING EXPERIENCE:

Muskurahat Foundation

Mar 2022 – Apr 2022

- Mobilized community support through targeted social media campaigns, securing educational resources for 150+ underprivileged children and exceeding initial fundraising goals by 20%.

International Model United Nations

Aug 2021 – Sep 2021

- Promoted pharmaceutical products at university career fairs, engaging with over 200 students, distributing informational brochures, and answering questions regarding career opportunities within the company and necessary qualifications.

COURSES AND CERTIFICATIONS:

- Vaccine Technology
- Pharmaceutical Formulation Development
- Python for Biologist
- Laboratory Skills