

# 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.

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.

Edufibrca in 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.

## **Project Work:**

### **Heavy Metal Sensing**

- This project focuses on developing an accurate biosensor capable of detecting numerous heavy metals.
- This project includes, developing and optimizing heterogeneous 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, and stimulating the model through COMSOL Multiphysics.
- 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 the platform at university career fairs, engaging with over 200 students, distributing informational brochures, and answering questions regarding career opportunities.

## **COURSES AND CERTIFICATIONS:**

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