

Anish Prasad Lohani

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EDUCATION

Budhanilkantha School,

CIE A Levels Physics, Chemistry, Biology, Core Mathematics, English

Kathmandu, Nepal

August 2023

- Grades: A*, A*, A*, A*, b | Principle's Merit List
- Ranked: 4/103 students
- Relevant Coursework: Calculus, Algebra, Trigonometry, Geometry, Probability & Statistics, Physical Chemistry, Organic Chemistry, Biochemistry, Inorganic Chemistry, Analytical Chemistry, Cellular Biology, Genetics, Taxonomy, Zoology, Botany, Mechanics, Kinematics, Quantum Physics, Electricity and Magnetism

EXPERIENCE

Bucrini Pharmaceuticals

Research assistant and Intern

Kathmandu, Nepal

August 2021 – October 2021

- Collaborated with licensed pharmacologist and researched on pharmacokinetics of PPIs and NSAIDs
- Analyzed data and produced reports, leveraging bioengineering software such as Crystal Maker and Pymol
- Administered blood, urine, PCR, and Dipstick tests of patients
- Developed possible enzyme cascades report using spectrophotometer data
- Assisted with 'cell culture' and 'protein purification' processes

Shikhar Biotech

Intern at Research Intern

Kathmandu, Nepal

November 2021 – March 2022

- Conducted in SDS-PAGE, Western blotting, and cell culture.
- Experienced in affinity purification, Flowcytometry and R&D.
- Skilled in IgG precipitation and lysate formation.
- Analysed Bioinformatics data of CD4 T-Cells to conduct toxicological test.

LEADERSHIP & ACTIVITIES

Knowledge Park Budhanilkantha School,

Team Leader

Kathmandu, Nepal

August 2021 – May 2022

- Headed a team in creating a fully automatic plant nursery, weather station, and IoT-based smart lights using Arduino
- Conducted research on soil statistics and nutrient cycle of leguminous plants
- Analyzed taxonomic survey results using Simpson's Biodiversity index
- Explored sustainability and viability of IoT in agriculture

Budhanilkantha School Science Technology and Robotics Club

Vice President

Kathmandu, Nepal

August 2021 – Present

- Oversaw the organization of Dev Fest, a nationwide front-end website development contest for high school and undergraduate level students
- Provided training for Math and Science Olympiads to students
- Led efforts to increase STEM literacy in Budhanilkantha Area

Om Samaj- NGO

Volunteer, Health Worker, Educator

Tokha, Nepal

May, 2021 - Jan, 2022

- Assessed and provided preventative, promotive, and rehabilitative health services to COVID-infected individuals
- Raised awareness about vaccine safety
- Collected samples for contact tracing
- Supported COVID-infected individuals both financially and psychologically
- Provided free cetamol, zinc supplements, and vitamin B supplement

SKILLS & INTERESTS

- **Technical:** Python, Pymol, C, HTML, SQL, VB, Arduino, Windows, Linux, macOS
- **Languages:** Fluent in Nepali, Bilingual in Hindi, Proficient in English
- **Awards and Honors:** National Delegate in International Chemistry Olympiad (IChO), 2nd in Nepal Chemistry Olympiad 2022, 4th in Nepal Biology Olympiad 2022, 5th in Nepal Junior Science Olympiad 2021
- **Interests:** Biochemistry, Cellular Biology, Genetics, Organic Chemistry

