

While pursuing my Bachelor's degree in Chemistry at **Amity University**, I did an internship at the **University of Calcutta** where I performed research in organic chemistry synthesizing metformin loaded on graphene oxide nanomaterials. This opportunity incented me to start reading scientific papers and boosting my scientific curiosity. I realized that the process involved in research of finding a problem, looking for answers, developing experiments, failing repeatedly until you reach your research goal, was what I want to do in my future career. I was sure that the field of chemistry was the right fit for me.

After I realized that, my problem-solving and dynamic personality led me to the biophysical chemistry area. Hence, I quickly became fascinated with drug designing science mainly because it offers a swift turnaround between academic research for a new method and the application of such a method in real cases. This, besides the possibility of exploring all those state-of-art equipment and the methodical process of working in an ISO environment, made me eager to engage in and learn profoundly about this field. Since then, I have developed a strong interest in exploring the field of developing therapeutics and also attempting to understand their physical characteristics.

Moreover, among the countless experiences inside the laboratory, I would like to emphasize my undergraduate internship where I utilized biophysical chemistry. The presentation of this work yielded a paper published at "**Biochimica et Biophysica Acta – General Subjects**" journal.

Now I attend a master's program in science at the University of Calcutta. Having the above mentioned in mind, I have decided to apply for this Ph.D. position, as it will bring me one step closer to my goal of becoming a researcher and an academic professor. I would gain the opportunity to learn from recognized professors, develop new perspectives of view, and further strengthen my abilities for critical thinking.

I am confident that my academic records, experience, professional goals, and enthusiasm qualify me for consideration.

Thank you very much for your time and consideration, I look forward to hearing from you.

Sincerely,

Aparajita Bose