

## Sample SOP for MS in Biotechnology

The mysteries of life, the intricacies of the human body, and the dynamics of plants and wildlife have all captured my imagination since the day I got introduced to biological studies at school. This awe has motivated me to explore the subject in-depth through a degree curriculum. After getting familiar with the various sub-disciplines of the field, I became rapt by the futuristic possibilities of biotechnology. With the intention to imbibe advanced skills that will help me evolve as a researcher, I have decided to sign up for the MS in Biotechnology course from Boston University. I am confident that this course will propel me closer to my dreams.

Academically, I have maintained an unwavering performance during the course of my school and college years. I obtained 81.6% and 86% marks in my secondary examinations and intermediates, respectively. On account of my innate aptitude in science, I joined the Lovely Professional University in Punjab with Biology as the major. What made the subjects fascinating to me was the chance to explore the world around me and know it better. I graduated from the course with a CGPA of 7.68. Surely, I can replicate the results in my continued pursuits as well.

During the final year of my graduation, I worked on a project that analyzes the efficiency of medicinal plants for the treatment of bacterial and fungal infections. The project was footed on the assumption that the restorative powers of plants are unappreciated by the modern scientific community. After all, plants and herbs are the earliest known medicines and were the only source of cure in prehistoric days. Although these plants have been widely accepted as home remedies, their ability to heal impediments often gets overlooked.

My exploration aimed to verify the claims to the abilities of these herbs, if any, or to debunk them in case they turn out to be false assertions. Due to the legal and moral boundaries of conducting the trials on living organisms, we cultivated the target pathogens in a petri dish by simulating the ideal growing conditions in the lab. I also got the opportunity to publish the results for my experiments through the Indian Biological Journal. In addition to nurturing my project management skill, the experience also evoked in me a passion for research.

I got opportunities to foster my flair for leadership and initiative right from schooling. In the last year of my higher secondary studies, I served as the Student Head for the Science department. My college life has been a concoction of activities like stage acting, technical expos, and games. I have also enjoyed camping in the forests, combined with bird watching and wildlife photography.

I have found that Biotechnology fits me as a career choice for several reasons. Firstly, it allows a lot of room for research and is a natural progression of my current education. My project experiences had made use of the elementary principles of biotechnology. This will give me a

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small, but not insignificant, head start in this direction. In addition to this, the field has massive job opportunities in India. This will serve to ensure that I will not have to search long for a job subsequent to my post-graduation.

I am looking forward to pursuing an MS in Biotechnology from the United States, as it will fortify my career. The country is known for its quality of higher education and living standards. As one of the cradles of modern research methodologies, the academia of the country will be beneficial to my cause. Additionally, the culturally inclusive nature of the US will expand my horizons and allow me to build some international associations. In light of these reasons, I decided that the US is the ideal destination for me.

In the past weeks, I have made extensive inquiries on the web to find the best institution for me. The program offered by Boston University appealed to me the most. Particularly, the focus on modules based on Molecular Genetics, Bioprocessing Productions, Bioinformatics, and biochemistry is in congruence with the demands of the modern industry. Therefore, this course will significantly heighten my perceptions and help me attune myself to research insights. The in-depth grasp of these concepts will also facilitate my journey to become a researcher.

I will meet the expenses for the master's program by availing of a bank loan from India. The documents proving my financial wherewithal for the completion of this course are submitted for your verification and confidence.

I plan to return to India after completing my education. The training from your institute will enable me to make a seamless transition into the Indian industry. I would love to work in a research laboratory at a leading pharmaceutical plant in India. My country has an established pharma industry that is fast expanding and thriving. In the long run, the options of branching out my career as a researcher or a research administrator are equally favorable to me. I am sure that this course will equip me with the skills and confidence to translate these dreams into reality.

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