

## Letter of Motivation

My name is **Sankalp Shankar Chowdhury**. I was born on 03.02.2003. Biochemistry and Molecular Medicine is not a mere career choice for me. All things molecular and biochemical simply interest me. I found this program covers my background and my career prospects that are ideal for me to explore the frontiers of biochemistry where we can meet to create more innovations in human well-being. I am pursuing **B. Sc. Honours Genetics from The Charutal Vidya Mandal University** and I have knowledge in subjects such as genetics, biochemistry and molecular biology. Furthermore, my proficiency in English as demonstrated by my overall score of **8 bands in the IELTS exam**, will equip me with the required skill to communicate and share ideas with academics from varied cultural backgrounds that the University of Cologne can be proud to call its students.

Apart from academics I have been involved in other kinds of activities such as attaining positions in IT quizzes, partaking in youth festivals and being at worthy standards in music and piano. They have made me a better and more effective critical thinker; a better teammate and also creative, skills that will come in handy in the Master's degree program. Additionally, my overall successful completion of the online courses in the area of immunology, air pollution and energy metabolism shows that I remain committed to expanding my knowledge acquired through various forms of learning in different environments.

It is also worth mentioning that I participated in the "**Genomics and Proteomics**" workshop held at IIT Bombay where I gained some hands-on technique and technology training. The technical certificates that I have received such as the biochemical principles and chronic infections focus on the theories and knowledge that I would build on in the graduate study.

**Internship Experience:** The experience in the **Summer Research Internship Programme at the Department of Science & Technology, Government of Gujarat** has taught me how scientific research is done, taught me the value of science and also rekindled my desire to contribute to the spread of knowledge in the area of biochemistry and molecular medicine.

**Why Study in Germany and the University of Cologne?** Germany is the most appropriate country to pursue Master's course in Biochemistry and Molecular Medicine course due to the high levels of scientific research and technological advancement in the nation. It has the strongest education system where the universities and the facilities support academia to generate dialogue for the life-altering breakthroughs. Additionally, since Germany focuses more on the application of different subjects through cross fertilization and adoption of the industry-based training curricula, learning within the field offers a lot of extradite practical experience and networking opportunities to the student that is pursuing learning in the field. These factors make the nation a favorable destination for individuals seeking quality education as it is culturally rich and its citizens typically enjoy a high quality of life. In the end, the study in Germany will enable me to learn the knowledge and expertise that will be vital in the evolution of biochemistry and molecular medicine worldwide.

The Master's program in Biochemistry and Molecular Medicine at the University of Cologne has a rigorous theoretical prerequisite that will allow me to explore further the molecular basis of human diseases and will also offer me the opportunity to continue working in research laboratories.

**Learnings and Applications:** The reason behind my commitment to completing this Master's course is that I am passionate about fostering proficiency in biochemistry and molecular medicine. I am specifically interested in structural biology and metabolic engineering and understanding the sophisticated pathways that lead to disease states in the body. Learning how to apply the latest technologies, including genomics, proteomics, bioinformatics, and others, will help me develop the necessary skills and expertise to conduct valuable research and support investigators in developing groundbreaking scientific achievements. Furthermore, the course has a special focus on team projects, providing me with the opportunity to participate in interdisciplinary projects and gaining skills required for successful team work that is especially important in the rapidly changing world of biomedical science. They may include job opportunities in government departments or hospitals that provide more opportunities for human resource development through learning how to address challenging issues creatively and to develop ideas that can change how professionals work in healthcare institutions throughout the world.

**Future Goals and Career Aspirations:** Upon the successful completion of the Master's program I will seek employment as a Research Scientist or Molecular Biologist in any of the giant companies operating in the world such as Roche, Novartis or Amgen. They also have some of the most exciting research and production centers in biotechnology and pharmaceuticals that would provide me with the perfect environment to utilize my knowledge and skill beyond university. Finally, my aim is to bring more value to the medicine field and help to create new effective therapies aimed at satisfying the healthcare needs of the modern world.

After a thorough analysis of the Biochemistry and Molecular Medicine Master's program at the University of Cologne, I come to an undoubted conclusion that studying this program is an ideal fit for me as I am passionate about decoding the molecular answers surrounding human health and human diseases.

**Lastly, I would like to thank you for considering my application.**

**Regards**

**Sankalp Shankar Chowdhury**