

STATEMENT OF PURPOSE

I am **Karthik Sadashiv Shetty**, and I am writing to express my keen interest in pursuing a **Master's degree in Physics** at the **University of Freiburg**. This letter aims to highlight my academic background, professional experience, and the motivations driving my desire to further my education in this field at your esteemed institution.

I completed my Bachelor of Science at the University of Mumbai with a CGPA of 9.31, which translates to a German Grade of 1.34. My higher secondary education was completed with a score of 77.38% (German Grade: 2.04) in the 12th grade in 2020, and in my 10th-grade examinations I got 89.40% (German Grade: 1.49) in 2018. Additionally, I have demonstrated proficiency in the English language, as evidenced by my IELTS score of 7.5, with individual scores of 8.5 in Reading, 8.0 in Listening, 7.0 in Speaking, and 6.5 in Writing. My technical skills include proficiency in MS Excel, MS Word, MS PowerPoint, basics of C++ programming, the 8085 microprocessor, and R Software.

I have been a Physics Faculty at BYJU's Learning App since October 2023. This time has deepened my understanding and passion for Physics. Teaching students from grades 4 to 10 has improved my communication and problem-solving skills. This role let me deeply engage with the subject and inspire young minds. It reinforced my commitment to advancing my own education in Physics.

I am motivated to take this course because I wish to understand the basic rules that govern the universe. I studied Chemistry, Classical Mechanics, Optics, and Thermodynamics as an undergraduate. These studies gave me a strong base in many parts of Physics. Pursuing a Master's degree at the University of Freiburg will let me study advanced topics like Quantum Mechanics and Applied Physics. It will also give me the skills I need for a career in research and academia. I want to work as a Research Scientist, Quantum Physicist, or Physics Professor.

Germany is famous for its strong emphasis on advanced technology which provides an ideal environment for science. Germany produces over 30% of all physics research in Europe. It is also home to numerous Nobel laureates in Physics. The opportunities for learning and collaboration there are unparalleled. Also, Germany has strong ties to industry and research. These ties offer many chances to collaborate and apply theory.

The University of Freiburg is an ideal institution for my postgraduate studies. It stands out due to its high rank and excellent reputation in Physics. It ranked 192nd globally and 9th nationally in the QS World University Rankings 2024. It was 201-300 globally and 13-23 nationally in the ARWU Global Ranking of Academic Subjects 2022 for Physics. The university's focus on advanced quantum mechanics and applied physics fits my interests and goals. Also, the curriculum is comprehensive and includes modules such as Advanced Quantum Mechanics, Advanced Physics 1, 2, and 3, elective subjects, term paper, and master laboratory. All this promises a complete and holistic education. I'm particularly excited about the chance to do research and interact with distinguished faculty.

In conclusion, I am sure the University of Freiburg's Master's program in Physics will give me the advanced knowledge and skills I need. They are necessary to achieve my career goals. I am eager to contribute to and benefit from the university's vibrant academic community. Thank you for considering my application.

Sincerely,

Karthik Sadashiv Shetty