

STATEMENT OF PURPOSE

My name is **Harsh Bellam** and I am applying for the **Master's program in Astro and Particle Physics** at the **University of Tübingen**. I am writing this letter to show my interest in joining this esteemed program.

I earned a **Bachelor of Science in Physics** from Sathyabama Institute of Science and Technology. It is in Tamil Nadu, India. Until my fifth semester, I maintained an **8.73 CGPA**. My studies covered subjects such as Mechanics and Properties of Matter, Thermal and Statistical Physics, Electrical Circuits, Network Skills, and Electricity & Magnetism. Before this, I completed my Senior School Certificate Exam in 2021 where I scored 93.8%. I also completed my All-India Secondary School Exam in 2019 where I scored 89.6%. Both tests were under the Central Board of Secondary Education (CBSE), India. My English skill is shown by my **IELTS score of 7.0 (C1)** which I gave on 05.04.2024. I got a 7.5 in Listening, 7.0 in Reading, 7.0 in Writing, and 7.0 in Speaking.

In addition to my academic accomplishments, I have done various extra-curricular activities. Notably, I got second place in the **Ultimate Badminton Battle at the SMASH SHOWDOWN** on 20.03.2024. I also did an **internship at VEI TECHNOLOGIES PVT LTD**, Tamil Nadu, India, from 15.06.2023 to 28.06.2023 where I worked with sci.AI, a platform that analyses research papers using semantic graphs. Also, my bachelor project was called "**Growth, Characterization and Analysis of Single In-Organic Crystals Exhibiting Non-Linear Optical Properties**," which was done from 12.2023 to 04.2024. The project involved growing and studying K2B4O7 crystals using the slow evaporation method.

I want to pursue this course as I have a strong foundation in physics from my previous studies. I plan to build on it by studying advanced topics in astronomy, astrophysics, and particle physics. The Master's program at the University of Tübingen offers a comprehensive curriculum that includes modules on Modern Topics in Astro and Particle Physics, Theoretical Astrophysics, Computational Methods in Physics/Astrophysics, Astronomy & Astrophysics, Particle Physics, and Stellar Physics. This program will improve my theory knowledge and will also give me the skills needed for a career in research and academia. I aspire to work in roles, such as a research scientist, astrophysicist, or academic lecturer. In these roles, I can help make pioneering discoveries and advances in physics.

Germany allocates about 3% of its GDP to research and development. This ranks it among the top nations in the world for innovation. Germany has over 400,000 international students which provides a diverse and lively academic environment. Its strong research infrastructure is ideal for advanced studies in astro and particle physics which further cements my commitment.

The **University of Tübingen** is especially appealing due to its strong focus on research and its global reputation. It is ranked 213th in the QS World University Rankings (2024) and 11th in Germany. It stands out as a leader in science education. The university's ARWU Subject Ranking in Physics (2022) places it 301-400 globally and 24-28 in Germany. This shows its big contributions to the field. The university offers high-tech facilities and also provides access to top research projects. This provides an ideal environment for aspiring physicists. Also, learning from great faculty and working with diverse peers will enrich my studies.

In conclusion, I am eager to join the Master's program in Astro and Particle Physics at the University of Tübingen. I want to deepen my understanding of the universe and contribute to the field of physics. I am confident that the program's curriculum will teach me the knowledge and skills that are needed to reach my academic and career goals. Thank you for considering my application.

Sincerely,

Harsh Bellam