

SAMPLE SOP FOR MECHANICAL ENGINEERING IN CANADA

The scope of mechanical engineering dynamics and their corresponding applications are limitless. An engineer who is adept in the fundamentals of physics, and has the dexterity to adapt the theories efficiently to address real-world problems, can bring about spectacular effects. Having gained profound experience and exposure in this field, I aspire to further bolster my skills and knowledge in this subject. Motivated by this understanding and passion, I chose the York University for my higher studies as I embrace a Master's degree in Mechanical Engineering.

Right from the commencement of my degree studies in Mechanical Engineering at the IIT Chennai, I have taken the deliberate effort to prepare myself for the challenges of the professional world. Undertaking an assortment of essential papers such as Aerodynamics, together with mathematical coursework like combinatorics and advanced topics like Vibrational Acoustics has imparted in me a robust technical comprehension and a transferable set of skills.

It was during the summer internships of the third year that I discovered my passion for the field of biomechanics. I got an opportunity to intern at EnArmra Technologies, a prosthetics production company in Chennai. My earliest involvement at the company was in the creation of a miniature thread-based prosthetic device. The three months stint was enriching, instructive and exposed me to the fast-paced industrial environment. I got introduced to many advanced concepts in biomechanics and was able to see how they interrelated with the theories of fluid mechanics and fluid-structure interaction. My experiences here invigorated my passion for biomechanics and implanted in me an ambition to embrace a research career.

I stoked up my incipient passion for biomechanics during my final year project. Banking on my enthusiasm to build a serviceable model and my passion for the game of cricket, I designed a multi-body dynamic model to help cricket players. The mechanism offers haptic feedbacks to methodically optimize the motions of bat stroking and ball throwing. I was fortunate to receive the cooperation of the state cricket club and other qualified monitoring organizations for the project. Overcoming the challenges posed by the project elevated my confidence to pursue this field of study as my career choice.

My achievements are not limited just to the scope of the academic realm. I have an affinity for taking the initiative, and this has doled out the opportunity to serve at the management team of various technical and cultural events at the college. During the senior years of my degree, I was one of the planners for the Inter-university Technical and Cultural events. Taking up such roles has extended my association with professionals from various industries.

After careful contemplation, I realized that it would be a logical decision to leverage my studies before entering the professional ambit. A Master's course in Mechanical Engineering would be the natural progression of my academic journey. I was determined to enroll myself in a college that offers adequate priority to researches and offers a syllabus with sufficient focus on topics related to my research interest, such as biomechanics and hydraulics. Although there were many

Indian universities that teach these subjects, there's hardly any institution that adopts a research-oriented perspective. This realization led me to opt for a university outside the country.

I decided to pursue this advanced program from Canada as the country is hailed as a front-runner in providing technical and engineering education. The academia of the country forms the frontline of cutting-edge researchers in Biomechanics and related trades. The presence of numerous top-notch tech establishments in the country brings me a great opportunity of completing a training period at an international firm. In addition to this, I have heard that the country is extremely amiable and supportive to students from across the world. This factor has also influenced my academic decision.

My preference for the MS in Mechanical Engineering offered by the York University is rooted in several aspects. Since there are no questions to be asked about the reputation of the academy or the eminence of its faculty, I will get to the features that appealed to me personally. Firstly, I like that your university invests heavily in researches. Prof. Sayid Jarrah's studies on Wearable Exoskeletons and Prostheses have intrigued me enough that I plan to join the team given the opportunity. The academic aura emanating from your university has made its vicinity a hub for industrial research. The conglomerate of industries focusing on pertinent researches will give me the best opportunities to familiarize myself with a high-end research setting.

After the completion of this course, I will return to India and commence with my life as a researcher. Given that the country has a strong medical sector, I am confident that I will be able to find a place in researches for hybrid prosthetic limbs and other bionic implants. With the advantage of this course, my journey to a successful career will not be far from being true. Therefore, I look forward to be a part of your esteemed university and transform my career.

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