

STATEMENT OF PURPOSE FOR M.TECH IN CHEMICAL ENGINEERING

Most of the vehicles and industries run on petroleum product which is often a sub-branch of chemistry what if they could be more effective and easily available in adequate amount? I began with that vision when I started my Petroleum engineering degree in college with the aim of becoming an engineer in a petroleum company upon graduation. After working for a year in this field, Now I have decided to pursue my Masters degree in Chemical engineering hoping that it could enhance my understanding and allow me to be more versatile in the field of petroleum, chemicals and petrochemicals so that I could come up with more innovative solutions and ideas and explore my skills in those fields.

During College, I completed two internships at companies specialized in refinery and petroleum pipelines. I was responsible for checking over gas sweetening (H₂S and CO₂ removal) and identify areas that would need additional maintenance and inspection on a regular basis. I also carried out my project on coal bed gas production. I worked in a drilling company for a year assigned as Trainee drilling fluids engineer where I learned mixing, controlling and testing the mud, making necessary adjustment of viscosity, temperature, PH- balance and chemical components. My experience has shown me that the engineering offers a wealth of opportunities and I hope that this Masters' program will prepare me for a career as an engineering professional.

Through this Masters' program in Engineering, I hope to be able to acquire the skills and knowledge. I will need to be a competitive candidate in the corresponding job field. In addition to my desire to boost my knowledge base with additional insights from my course work, I also hope to be able to engage to complete projects and research that will challenge me to think critically and apply interdisciplinary ideas. These ideas will allow me to recognize unmet needs in the community around me that can be addressed through intelligent designs. Through the course work and training I will receive from this program; I will be prepared to take on industry level challenges as a chemical engineer in the future.