

## STATEMENT OF PURPOSE

NAME: VIVIDH MAKHWANA

As this millennium comes to end, can see tremendous progress in my country. This is due to noticeable change towards high technology, which my country has adopted and enveloped. As a result there is continuous and sophisticated industrialization and the basic of all engineering i.e. mechanical had been soft wired. The significant headway in product development during the last two decades has been no small measure due to use of computer design and manufacture. Impact of this technology in Automobile, Aerospace, Marine, Metallurgy and Power Plants has been phenomenal.

My inclination towards science began from childhood. I excelled in my school career. My candid and industrious efforts enabled me to get admission in Mechanical Engineering at L.D. College of Engineering, the 1<sup>st</sup> ranking college of Gujarat University in the year of 1992. My favorite subjects were Dynamics of Mechanics, Heat and Mass Transfer, Operations Research, Control System Engineering and Machine Design. The curriculum also included Auto CAD, Programming in 'C' and FORTRAN.

I joined the BIRLA COPPER just after my graduation. BIRLA COPPER is one of the largest copper smelter in India and a group company of A.V. Birla Group. The technological know how of BIRLA COPPER is from M/s. Otukompu Engineering of Finland. When I joined BIRLA COPPER it was under construction stage and this gave me the opportunity to see the roots of the engineering. During last two years of my experience at project stage I came in contact with latest technical developments and skilled personalities from all over the world. The more practical training I have undergone, the more I want to learn. This inspires me to go for higher studies and forms the basis of my desire to pursue my MS in USA. I believe that by studying in a technological advanced country like yours, I will be able to further enhance my knowledge with the opportunity of getting exposure to the latest development-taking place.

Your university with its strong foundation, excellent infrastructure, adequate facilities of labs and libraries and state of the art computer facilities will enable me to enhance my skills. Thus I will be able to realize my professional goals. Opportunities in India for higher education are limited.

American education with inputs from associated industries provides expansion of faculties of the mind. With variety of courses and comprehensive set of electives your course structure is very appealing. Your university is an ideal place for aspiring students like me. I always wanted to be a part of an institution like yours, which has faculty comprising of eminent scholars of international repute and provides a stimulating education environment.

The Government of India had liberalized economic policies; as result of which a new window has opened to receive technologies. This is creating 'big -time' opportunities for student graduating from American Colleges. I desire to benefit from this liberalization. I am convinced that I can change the social and technological environment of my country after graduating from your institute. I will be grateful if I get financial assistance/scholarship/teaching assistantship.

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