

# Strengths, weaknesses, and potentials of Engineering Design Services in India

## Abstract

India is a highly intellectual country and the world's Engineering outsourcing hub. There is a surge of highly talented and skilled engineers and designers which leads to the increased potential of engineering services being outsourced to India. We are very effective communicating in English, which is universal. Willingness to learn, having the spirit to work hard and serve the industry are the most significant strengths. This is a sector that yields very high foreign exchange, knowledge sharing and poised to grow beyond boundaries over the years. On the contrary, sometimes we do not meet the schedule and hesitate to ask doubts, which becomes our weakness.

With the bountiful experience of being part of engineering teams, this research is proposed to go deep into the various industrial sectors and areas that are engineered in India. With the growing call for "Make in India", we also have to propagate "Designed in India" as a profound geographical indicator. This proposed research will consolidate the information of engineering consultancies, their clientele, their key strengths, an insight into their finances and year on year growth.

Though early-on it was thought that only the low-end drafting, conversion or rasterization, and more were main products of focus, the shift towards high-end analytical development like Computation Fluid, Finite Element is worthwhile to understand.

Efforts will be made to understand the clientele, their locations and how they benefit from the sector. Details on concentration of companies, geographical spread, urban-rural divide, within India will be analyzed, and efforts will be made to identify the states that are strong in this business. The research will also analyze success - failure criteria and showcase what the best practices are, to be successful from both the provider and taker.

The study also will indicate the factors to be considered to set up a team to perform engineering in India. Many companies have their offshore engineering excellence centres here.

The final product will be a website and directory that will have public access to information, which will be an eye-opener to seekers of engineering and technology. This also will allow students to have a database for their future prospective employers.