

**Need great efforts in improving employability in core engineering roles to make  
Make in India successful:  
Aspiring Minds National Employability Report 2016**

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**New Delhi, 1<sup>st</sup> June, 2016:** Less than 8% of Indian engineers are employable in core engineering roles reveals Aspiring Minds' latest **National Employability Report**. The National Employability Report for the first time this year looked into the employability of specialized and new careers which are available to engineers, other than core IT and software roles. The nationwide analysis based on a sample of 150,000 engineers showed there was a huge gap in skills of engineers, as needed, to work in the large industry.

The Government's ambitious Make in India initiative aspires to create manufacturing capacity in India and generate 100 million jobs by 2022. Such manufacturing workforce will be managed and led by a huge number of engineers in various fields such as mechanical engineering, civil and electrical engineering. Engineers will also largely contribute to product designs, enhancement and implementation. Low employability of engineers, however, will impede the growth of manufacturing in India in a big way and requires immediate intervention.

"There are several problems with regard to employability in core engineering roles. Firstly, we need to excite students about these jobs. Everyone's focus today is on IT. We want students to design and build things. Secondly, we need emphasis on the basics, for instance, basic electrical engineering, basic concepts of mechanics and so on. In our analysis, we find, students do not have these basic concepts right. Thirdly, there is a huge need of a curriculum revamp and to bring in new teaching methods and technology." said **Varun Aggarwal, CTO Aspiring Minds**.

"The science of manufacturing has moved way ahead but we continue to teach outdated concepts to students. For India to become the world's manufacturing hub, we need to lead from the front in our understanding of cutting edge methods, knowledge-driven management and implementation capability." **he added.**

## Employability by Roles:

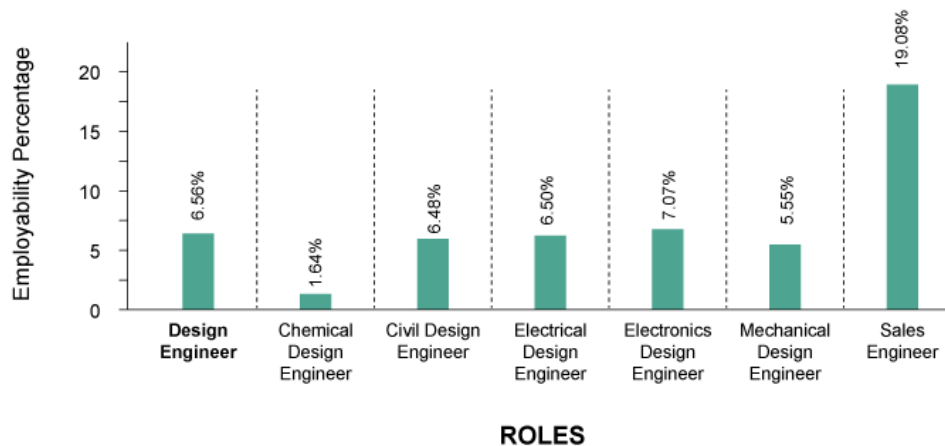
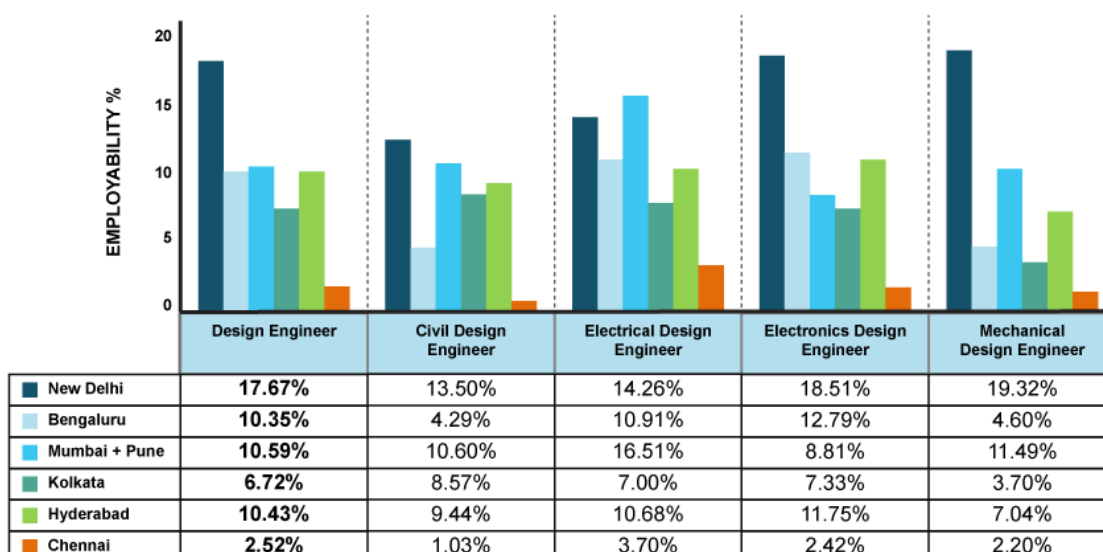


Figure 1: Employability Percentage of Engineering Graduates in Different Roles

- Employability for roles like Mechanical Design Engineer and Civil Engineer stand at a meagre **5.55%** and **6.48%** respectively.
- The lowest employability percentage has been recorded for the Chemical Design Engineer role at **1.64%**.
- Employability in the domain specific roles is the highest for **Electronics engineers at 7.07%**. This percentage is considerably lower when compared to employability in IT roles like Software Engineer – IT services and Associate ITes Operations (Hardware Networking) which stands at **17.91%** and **37.06%** respectively

These roles require good analytical skills, ability to apply their skills to real world problems and not as much stress on English communication skills as compared to the IT services roles. In spite of this, a very small percentage of engineers are adept to join the industry. In order to remain competitive in the new emerging industries, a fundamental shift in college instruction and assessment methodology is required, which should not be focussed on learning by rote.

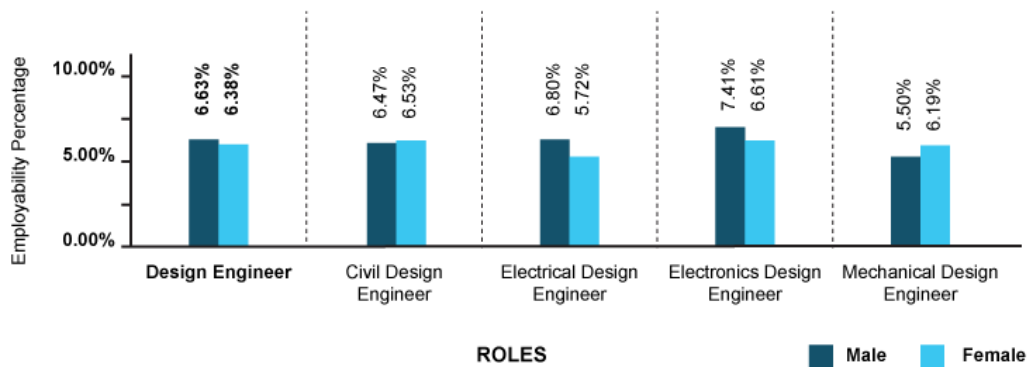
## Employability by metros:



**Figure 2: Employability Percentage in different Metro cities**

- The study on employability across metros reveals higher employability in **Delhi and Mumbai** with employability for the electronics design engineer role as high as **19%** followed by cities like Bengaluru, Kolkata and Hyderabad.
- The lowest employability figures across roles is observed in Chennai with employability for the Civil Design Engineer role as low as **1%**.

**Employability by gender:**



**Figure 3: Employability Percentage – Males vs. Females**

The study of employability by gender reveals relatively equal employability amongst males and females in core engineering roles. In spite of equal employability the ratio of males to females employed in the industry is very low. This breaks the general stereotype that girls aren't good at core engineering roles.

- Employability for roles like Civil Design Engineer and Mechanical Design Engineer is higher for females than males standing at **6.53%** and **6.19%** respectively

**About Aspiring Minds:**

Aspiring Minds is a global job skills credentialing leader set up with a vision to create a merit driven talent ecosystem and enable efficient job skills matching by crafting credible and intelligent assessments. The flagship product AMCAT, is the world's most widely-taken employability test helping over two million candidates find the 'right' jobs every year. Backed by state-of-the-art, adaptive

assessment technology and machine learning algorithms – it allows adaptive, standardized and reliable measurement of generic employability skills (language, cognitive, behavior) and a wide range of functional skills using simulated assessments. Aspiring Minds enables job seekers to evaluate their job skills, earn industry recognized credentials and find appropriate career opportunities. We also help companies dramatically improve their quality and efficiency of hiring and are today associated with more than 3500 corporations. Founded in 2008 by Himanshu and Varun Aggarwal, Aspiring Minds is a 500+ people strong organization with operations in US, China, India, Middle East, Philippines and Sub-Saharan Africa.

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