

Robotics Engineering: Demand, Scope & Opportunities



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Passionate about empowering the Gen-Z, Nitesh is a renowned mentor and a leader who also leads Best Group.

Robotics engineers are crucial across various industries. There exist tremendous opportunities in this field of engineering and its applications are of key importance to manufacturing units, medical, military and automotive sectors. Robotics Engineering takes help of modern technologies to design, construct, and operate on robots and use computer systems to control and process this information. From manufacturing units to experimental robotics for automotive, medical and

military industries, robotics is a fascinating, inter-disciplinary engineering field with ample scope to get placed in some of the best organizations, both nationally and internationally.

A course in robotics technology prepares, equips and instructs a student in several segments. This includes the field of artificial intelligence, digitization, technological manufacturing, computer-coordinated assembling framework, computational calculation, robot motion planning, advanced gadgets and micro handling. Robotics engineering is a core in numerous cutting-edge manufacturing businesses. As enterprises expand, the scope for advanced

ON THE DECK



robotics increases simultaneously. Robots are essentially utilized for conveying materials including substantial parts to and from hazardous locations, in addition to dealing with equally hazardous products like atomic waste.

Contrary to the common belief, the field of robotics involves a lot more than merely creating robots. It involves design, technical support, introducing applications, directing research and gaining practical experience in structure and control.

A specialization in robotics technology is a common pursuit nowadays, where several students travel abroad to study these subjects. This field offers opportunities for work and an advanced mechanics engineer can apply their skills in a diverse range of fields like modern warfare, medicine, nanotechnology and space-search. Alongside the specialized expertise, enthusiasm for research is a key ingredient for success in this field. Many subsidizing projects and grants are accessible for research and PhD aspirants. The opportunities are limitless and continue enhancing as technology advancements take place at a rapid pace!

The basic qualification to apply for a B.Tech degree in Robotic Engineering is having completed 12th grade and having opted for science as a stream, with subjects, including Physics, Chemistry and Mathematics. To apply for a post-graduation degree in Robotics, the undergraduate education ought to have been in any of the following areas – engineering, mechanical, electrical, electronics, instrumentation, control, and so on.

Advanced Robotics Engineering is viewed as a top of the line profession in India. There exists a broad scope with immense opportunities for a candidate with proficient experience and passion in Robotics building. A Robotic specialist can engage in assembling plants, research centers, clinical fields, mining, automation, life sciences, aviation design, agriculture, among other fields. Further, there is an incredible interest for mechanical designers in the gaming business and assembling units. In an event wherein a candidate has excellent merit records, they can land some top profiles in research associations, for example, ISRO and NASA.



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Advanced transformation is an existential basic that associations across sectors have set foot on. A hawk-eye focus on current innovation patterns and improvement procedures are supremely relevant to the present IT industry. AI and Robotic frameworks, that were until recently only available in a theoretical model has adopted a more practical and standard approach. Additionally, there is a rapid increase in Artificial Intelligence and Machine Learning based arrangements in the mainstream area. The future of robotics engineering, undoubtedly, finds tremendous opportunities for its budding professionals. What's more exciting is that data from several reports states that the scope, demand and opportunities in advanced robotics engineering will only enhance at an exponential rate, hereon.



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