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Why IoT professionals are more in demand than IT engineers

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The Internet of Things (IoT) has made its presence felt in several sectors, which has given rise to the demand for skilled professionals. Several students are taking up courses to learn and research IoT.

Speaking to Education Times, K Ramesh Babu, professor and dean, School of Computer Science and Engineering, Vellore Institute of Technology (VIT), says, “Syllabus in IoT specialisation courses ranges from sensors and actuator devices, IoT architectures and protocols, programming for IoT boards, industrial IoT, software-defined networks and Capstone Project.”

“After pursuing a course in IoT, students can look for jobs in AI, as IoT data analyst, network design engineer, security professional, hardware and devices specialist, user interface design engineer, sensors and actuator professional, IoT programmer (embedded programme engineer) and storage analyst.”

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“IoT students are hired by all the IT services and IT product companies for their IoT practices. Salary prospects for students after completing a course in IoT ranges from Rs 3 Lakhs to 26 Lakhs per annum,” he adds.

Vinayak Naik, professor and head of Computer Science Department at BITS Pilani, Goa, says, “IoT are used to sense and report the sensed data over a network, similar to our nervous system. The four basic ingredients of IoT are sensors, computation, communication and data processing. Many industries today use IoT to monitor and operate their equipment which ranges from Power, Chemical, Transportation, Civil and Healthcare. The demand for manpower trained in IoT is in Machine Learning, Artificial Intelligence (AI) and Blockchain (accounting in crypto currencies).”

IoT India salary study, 2017 reveals that IoT professionals in India have nearly 76% higher salary than the IT professionals. The median salary of IoT professionals is Rs 15.2 lakh per annum while it Rs 8.65 lakh pa for IT engineers. “With a large amount of data getting generated from IoT, we are using two more technologies which are Machine Learning and AI to deduce actions to manage and operate the IoT.”

Brijesh Kohli, director, Xebia Academy, Gurgaon, says, “Applications and analytics, integration, security and infrastructure are the four basic elements on which IoT works. Fundamentals of Electronics & Embedded C, DS, OOPS with C++, ARM, embedded protocols, Linux Advanced Python, IoT Edge Node, Gateway & Security is taught to students in an IoT course. Data Analysis & Visualisation using Tableau Today technology plays one of the most important roles in shaping business growth, disrupting the verticals of the industry and driving business modernisation by optimising business operations. Due to their rich capabilities to gain quality insights through connected data-driven solutions, IoT and analytics platforms today are transforming businesses towards innovative business models. There are plenty of new business models due to IoT.”

“For instance, the IoT in the insurance sector has a system for insurance pricing policy wherein a monitoring and diagnostic device would determine the price of your car and decide the insurance cost.”