



Times News Network

Technology has become an important part of our daily lives but more importantly it has become the key asset of every organisation. This is true not only for IT-related companies but for organisations in every sector. The inclusion of technology in industry, along with the emergence of new technological trends such as cloud/mobile computing, big data, Internet of Things, and biotechnology amongst others, has made it necessary to rethink the future job roles within a company.

According to the World Economic Forum's Future of Jobs Report, we are currently at the beginning of a fourth industrial revolution, in which administrative and office roles will soon be replaced by automated systems and more computer and mathematical roles will be required. The report also highlights that social skills such as persuasion, emotional intelligence and teaching others will have a higher demand than technical skills such as programming. However, skills such as complex problem solving, systems skills and process skills will also have a higher demand.

In the UK, the Experis Tech Cities Job Watch reported that in the first quarter of

Future careers

Erika Sanchez-Velazquez, senior lecturer, department of computing and technology and member of the Cyber Security Research Group at Anglia Ruskin University, UK, on how technology will impact careers in the future



2016, there was a skills shortage in five main areas: cloud computing, IT security, mobile, big data and web development. In the US, the Bureau of Labor Statistics (BLS) reported that by 2022 there will be a growth of more than 22% of jobs in the

areas of database administration, software development, web application development, computer system analysis, mobile app development and information security analysis.

A sector that will become a focus for technology is the health sector, where more connected and automated systems will be developed to keep track of patients, connect health providers and analyse data to detect trends on a person's health. Farming will also see an increase in such systems where current efforts are focusing on developing complete automated systems that will verify the adherence to standards and monitor production chains. All these new solutions will make use of smart sensors, computer networks, cloud computing, and security and, therefore, will require qualified people to design, develop and maintain them.

Right now, universities should focus on building the appropriate courses to meet the demands of the industry for skilled and experienced graduates. This can be done by either university degrees or by graduate-level apprenticeship programmes developed between academy and industry.

