

# what is building automation?

Building automation refers to the use of technology to automate and control various systems within a building, such as heating, ventilation, air conditioning, lighting, security, and other mechanical and electrical systems.

It involves using sensors, software, and communication technologies to monitor and adjust these systems automatically or remotely, in order to improve energy efficiency, occupant comfort, and overall building performance.

In other words, building automation aims to make buildings "smarter" and more efficient by using technology to manage and optimize their various systems.

Building automation is installed today in essentially every type of building including hospitals, schools, office buildings, stadiums and more!



## Possible Career Choices

\*\*\*Currently hiring technicians! Do you like working with your hands? Looking for a trade, to be a great teammate, opportunity to learn, grow and make a career in Building automation. Apprenticeship and on-the-job training provided.

**Technician:** Building automation technicians are responsible for maintaining and repairing these systems to ensure they function correctly. For example, they may troubleshoot problems with sensors, controllers, and other system components and work with building occupants to address any issues. They may also conduct routine maintenance activities, such as performing system upgrades or modifications as needed. Overall, building automation technicians play a critical role in ensuring that building automation systems are working efficiently and effectively, which helps to improve the comfort, safety, and energy efficiency of buildings.



**Programmer/Graphics:** A building automation Programmer is responsible for designing and implementing software programs that control and monitor building automation systems. The primary role of a building automation programmer is to write software code that interacts with the building automation system's hardware components, such as sensors, controllers, and actuators. They may also be involved in the testing and commissioning of the automation system to ensure that it is functioning correctly. A building automation Graphics Designer is responsible for designing, implementing, and maintaining the graphical user interface (GUI) for building automation systems by designing and developing user-friendly graphical interfaces for building automation systems, including creating custom graphics, animations, and interactive controls.

**Design Engineer:** A Design Engineer designs automation systems for buildings. The design engineer will then select the appropriate automation components and create a detailed plan for the installation and commissioning of the system. This plan will typically include control system programming, wiring diagrams, equipment specifications, and installation instructions.

