



Automation professionals are essential to virtually every manufacturing process, whether they serve as technicians, technologists, engineers, or managers.

Manufacturing and industrial processes rely on a series of complex systems that must be regulated using various instrumentation and control devices. Often these systems, instruments, and control devices employ programmable response and action devices—automation. Automation works to ensure the highest and most consistent quality from manufactured products.

Select almost any industry, anywhere. Automation technologies are not only part of that industry, but, from plastics to cars, they are critical to production. Instruments and control systems measure, analyze, and manipulate factors such as temperature, flow, pressure, level, velocity, and composition in a variety of manufacturing, scientific, and technical applications. As a student considering this field, you have an immense array of choices. Positions in automation offer excellent pay and benefits.



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Setting the Standard for Automation™

Do any of the following characteristics describe you?

You like to work with your hands as well as with your mind.



You love the challenge of solving problems.



You work well with others as part of a team.



You're excited by the idea of exploring new or advanced technology.

If these descriptions fit you, you may be ready to enter the field of automation.

Imagine...

a career in exciting areas like:

Aerospace/Aircraft	Mining and Metals Industries
Automatic Control Systems	Power Industry
Measurement and Analysis	Process Measurement and Control
Chemicals and Petroleum	Pulp and Paper Industry
Communications	Robotics and Expert Systems
Computer Networks and Technology	Safety
Construction and Building Automation	Sensors
Food and Pharmaceuticals	Systems Integration
Glass and Ceramics Industries	Textiles Industry
	Water and Wastewater Industries

Career Choices

Most jobs fall into four general categories:

Engineering and design automation professionals in these positions research, design, build, and operate various systems and instruments to measure, control, and automate manufacturing processes. These jobs are vital to companies that manufacture products such as chemicals, paper, automobiles, and instruments, and to educational institutions.

Sales engineering companies rely on automation professionals to advise and assist clients and customers on the application, purchase, installation, and maintenance of available products and systems in order to improve the efficiency, output, and safety of manufacturing and industrial processing operations.

Management automation professionals interested in management careers rise to leading positions throughout the numerous manufacturing and industrial processing sectors of the global economy.

Engineering and maintenance technicians play key roles in installing, maintaining, trouble-shooting, and repairing various components of automation systems.

Automation and you!

Which of these modern products and conveniences have you used this month: a TV, a car, running water, electric lights, an iPod®, or a computer? Do you ever travel by airplane or use a microwave oven? Each of these modern necessities is the result of complex processes.

Without talented individuals to design, build, and maintain those processes, these technological advances could never have happened and future innovation would be impossible. Automation has become ingrained into the structure of our lives whether we actively realize it or not.

The men and women who have chosen careers in automation have become instrumental in shaping how we live our lives. They conceive, design, build, operate, and maintain the processes that make our 21st century lifestyle possible. They know their careers have a future, because they help build the future!



Where are you going?

ISA invites you to join as a Student Member

ISA Student Membership can provide increased career opportunities. From the moment you join, ISA broadens your knowledge and exposure to the world of automation. Membership in ISA indicates to prospective employers that you are a step ahead of the crowd...actively involved in pursuing your professional future.

ISA Student Sections meet regularly on campuses in the USA, Canada, and throughout the world. Section involvement offers an opportunity to participate in a variety of useful programs and activities and to develop leadership skills.

You'll receive:

- FREE listing of your resume at ISAJobs.isa.org
- FREE subscription to *InTech*
- FREE access to 40+ pre-recorded technical web seminars
- FREE downloads of ISA's library of over 2,500 technical papers
- FREE membership in two ISA Divisions
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- And much more!