



Setting the Standard for Automation™

Launch an Exciting Career in Automation!

with Student Membership in ISA




Standards
Certification
Education & Training
Publishing
Conferences & Exhibits


Is a Career in Automation for You?




Do any of the following characteristics describe you?




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




Machines and computers fascinate you; you want to learn how they work and how they can be put to new uses.



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



You love the challenge of solving problems.



You work well with others as part of a team.

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

Men and women with a wide variety of educational backgrounds are designing secure futures in this dynamic, challenging, and rewarding field. They are earning excellent salaries and professional respect while enjoying exciting work that matches their talents and interests.



Imagine...

a career in exciting areas like:

Aerospace Industries

Analysis

Automatic Control Systems

Basic Measurement

Chemical & Petroleum Industries

Computer Networks

Computer Technology

Construction & Design

Electro-Optics

Environmental Applications

Food & Pharmaceutical Industries

Glass & Ceramics Industries

Management

Marketing & Sales

Mining & Metals Industries

Power Industry

Process Measurement & Control

Pulp & Paper Industry

Robotics & Expert Systems

Safety

Sensors

Systems Integration

Telemetry & Communication

Test Measurement

Textiles Industry

Water & Wastewater Industries



It's possible when you're an automation professional!



Career Choices

While the opportunities in automation are numerous, most jobs fall into one of 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? Have you ever taken medicine or had an x-ray? 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. Without automation professionals, our world and our future would look

very different. Automation has become ingrained into the structure of our lives whether we actively realize it or not.

And those men and women who have chosen careers within automation have become instrumental in shaping that structure. They conceive, design, build, operate, and maintain the processes that make our 21st century lifestyle possible. These automation professionals know their careers have a future because they help build the future!



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 operations—systems. And these complex systems must be regulated using various instrumentation and control devices. And 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. It is why you expect every soft drink, every spark plug, and every tube of toothpaste to be of a consistently high quality.

Positions in automation offer excellent pay and benefits because of the requisite level of skill and responsibility involved. As you grow in this profession, you will earn respect in a field that offers a variety of career choices and excellent job security. Because of their broad understanding of production processes, automation professionals have excellent opportunities for advancement into management positions.

No matter which path you choose, your education will continue throughout your career in automation. Continuing professional development and training are a must in this rapidly changing field.

Select almost any industry, anywhere. Automation technologies are not only part of that industry, but, from plastics to cars, they are critical to production. Men and women who specialize in automation conceive, design, build, operate, and maintain these vital systems. 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. The preparation you make now is an exciting first step toward your professional future.

ISA is a participating body of the Accreditation Board for Engineering and Technology (ABET), which accredits engineering and engineering technology education programs. ISA also develops standards for the profession and provides information and support to its members. Part of that support has been the area of credentialing. ISA's Certified Automation Professional® (CAP®) program provides recognition and enhances qualifications in the automation industry.



Recognition

Recognition of your achievements is critical when you seek employment. As a student, you can earn recognition leading to certification as an automation professional or technician. ISA offers two associate programs to help you.

ISA Control Systems Technician® (CST) Associate Program

The ISA CST Associate program recognizes a commitment to a career in automation and control and shows that educational accomplishments are only the beginning.

An ISA CST Associate has specialized work experience and/or an educational background in instrumentation and control, or a related field, and has successfully completed an ISA examination. The ISA CST Associate examination measures a fundamental understanding of knowledge in instrumentation and control. Successfully completing the CST Associate exam equals one year of education good toward the Level I Certified Control Systems Technician® (CCST®) requirements.



ISA Certified Automation Professional® (CAP®) Associate Program

The ISA CAP Associate program is for students graduating from a four-year technical degree program who are interested in working in the field of automation. This program provides recognition of the student's interest and knowledge of automation. Although the CAP Associate program is not a certification program, it provides an additional credential for graduating students, expands their resumes, and demonstrates to future employers an interest in furthering their careers in automation. Successfully completing the CAP Associate exam equals one year of experience good toward the Certified Automation Professional (CAP) requirements.



Note: These recognition programs are not certifications. Those who take either associate exam may be interested in pursuing the CCST or CAP certification, once the education and /or experience level required is reached.

Get Connected

Membership in any of ISA's 17 Technical Divisions or Technical Interest Groups connects you to people around the world who work in areas of automation that interest you. This is a great opportunity to network for potential career opportunities. Your ISA student membership allows you to join two Divisions (one from each Department) for free.

Automation and Technology Department

- Analysis Division
- Automatic Control Systems Division
- Computer Technology Division
- Management Division
- Process Measurement and Control Division
- Robotics and Expert Systems Division
- Safety Division
- Telemetry and Communication Division
- Test Measurement Division

Industries and Sciences Department

- Aerospace Industries Division
- Chemical and Petroleum Industries Division
- Construction and Design Division
- Food and Pharmaceutical Industries Division
- Mining and Metals Industries Division
- Power Industry Division
- Pulp and Paper Industry Division
- Water and Wastewater Industries Division



Join Us!

ISA invites you to join as a Student Member

ISA Student Membership provides 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 online listing of your resume at ISAJobs.org
- FREE subscription to *InTech*—today's most widely consulted monthly journal for automation and control systems
- FREE access to 40+ pre-recorded technical web seminars valued at \$225 each
- FREE unlimited downloads of ISA's library of over 2,500 technical papers
- FREE membership in two ISA Divisions—one from the Automation and Technology Department and one from the Industries and Sciences Department. Visit www.isa.org/divisions to learn more about Divisions.
- FREE online viewing of all ISA standards
- Networking opportunities with experts (and employers) in your field
- Mentoring through our Mentor Program, which enables you to access the wisdom and expertise of seasoned ISA Members
- And much more!

ISA Student membership qualifications

You are eligible for ISA Membership (at the student rate of \$10 per year) if you are a full-time student registered in a program leading to an automation-related degree or certificate. As a special bonus, you may upgrade to a Regular Member at the low student membership price for the year following the completion of your training or graduation.

Join ISA today for ONLY \$10!

- Online at www.isa.org/join
- Call ISA Customer Service at (919) 549-8411
- Fax a completed application to (919) 549-8288
- E-mail info@isa.org

Find out about ISA Scholarships at [www.isa.org/Scholarships!](http://www.isa.org/Scholarships)



www.isa.org/joinISA



Student Membership Enrollment Form

- **ONLINE** at www.isa.org/join
- **MAIL** this form to: ISA, PO Box 3561
Durham, NC 27709-3561, USA
- **FAX** to (919) 549-8288
- **CALL** ISA Customer Service at (919) 549-8411

Member Information

Please print clearly.

Mr. Mrs. Ms.

Name

Last/Family _____

First/Given _____

Middle _____

REQUIRED: Date of graduation (mm/yyyy): _____

University/College _____

Academic Major _____

Freshman Sophomore Junior Senior

Home Address

Mailing Address _____

Mail Stop _____

City _____

State/Province _____ Postal Code _____

Country _____

E-mail Address _____

Telephone _____

Fax _____

School Address

Mailing Address _____

Mail Stop _____

City _____

State/Province _____ Postal Code _____

Country: _____

E-mail Address: _____

Telephone: _____

Fax: _____

Birth date: _____ / _____ / _____ Gender: M F
Day Month Year

Division Information

Choose one division from each department for no fee. Choose additional divisions for \$10 each. Check all Divisions you wish to join and calculate the total cost below.

Industries and Sciences Department

Check all Industries and Sciences Divisions you wish to join. One is free with your membership.

- Aerospace Industries (B)
- Chemical & Petroleum Industries (G)
- Construction & Design (K)
- Food & Pharmaceutical Industries (R)
- Mining & Metals Industries (V)
- Power Industry (O)
- Pulp & Paper Industries (L)
- Water & Wastewater Industries (X)

Automation and Technology Department

Check all Automation and Technology Divisions you wish to join. One is free with your membership.

- Analysis (A)
- Automatic Control Systems (M)
- Computer Technology (D)
- Management (W)
- Process Measurement & Control (H)
- Robotics & Expert Systems (C)
- Safety (S)
- Telemetry & Communications (N)
- Test Measurement (J)

Calculate cost of additional Divisions joined:

of additional Divisions: _____ x \$10 = \$ _____

Payment Information

ISA student membership = \$ US 10.00

Division Membership Total (from above) = \$ US _____

Total Amount Due = \$ US _____

MasterCard Visa American Express Discover

Credit Card No. _____

Expiration Date (mm/yyyy): _____

Check payable to ISA Money Order Wire Transfer*

*Please contact ISA Customer Service at (919) 549-8411.

Signature This application cannot be processed without your signature.

Signature: _____ Date: _____

By completing this application, you acknowledge that ISA needs the information to service your membership. Occasionally, we make this information available to companies whose products or services may be of interest to you. Review ISA's complete Privacy Statement at www.isa.org/lawyer or request a copy by calling (919) 549-8411.

Do not release my name and contact information to companies selling products and services. Do not call me about ISA activities.

Where are you going? ISA can help.

- Access to the most up-to-date technical information in your field
- ISA Scholarships
- ISA Mentoring Program

Learn about these programs and others at www.isa.org



Founded in 1945, the International Society of Automation (www.isa.org) is a leading, global, nonprofit organization that is setting the standard for automation by helping over 30,000 worldwide members and other professionals solve difficult technical problems, while enhancing their leadership and personal career capabilities. Based in Research Triangle Park, North Carolina, ISA develops standards; certifies industry professionals; provides education and training; publishes books and technical articles; and hosts conferences and exhibitions for automation professionals. ISA is the founding sponsor of the Automation Federation (www.automationfederation.org).

