Engineering majors use science and math to solve practical problems and help create everything from assembly lines and oil-drilling techniques to spacecraft and MP3 players. A general engineering major at the associate degree level provides solid preparation for any type of engineering degree at the bachelor’s level.

Engineering Programs

**Binghamton University**
- Engineering
- Engineering Science
  - Adirondack
  - Alfred State
  - Broome
  - Canton
  - Corning
  - Dutchess
  - Erie
  - Finger Lakes
  - Geneseo
  - Herkimer
  - Hudson Valley
  - Jamestown
  - Jefferson
  - Monroe
  - Mohawk Valley
  - Morrisville
  - Nassau
  - Onondaga
  - Orange
  - Stony Brook
  - Suffolk County
  - Rockland
  - Tompkins Cortland
  - Ulster
  - Westchester
  - Engineering Studies
  - Niagara

**Albany University**
- Engineering 3+2 Programs = Two Bachelor’s Degrees:
  - Discover the best of both worlds...the intellectual training of a liberal arts program combined with the technical training of an engineering program. Students attend the first three years at a liberal arts college, followed by two more years in an engineering curriculum at Binghamton University or the University at Buffalo (or at other select universities). The end result is two bachelor’s degrees in five years. Students who complete 3+2 engineering programs often find themselves choosing between excellent opportunities in graduate school and industry.
  - Albany
    - Buffalo State
    - Cortland
    - Fredonia
    - Geneseo
    - Oneonta
    - Oswego
    - Plattsburgh
    - Potsdam

**Albany University at Buffalo**
- Engineering 3+2 Programs = Two Bachelor’s Degrees:
  - Discover the best of both worlds...the intellectual training of a liberal arts program combined with the technical training of an engineering program. Students attend the first three years at a liberal arts college, followed by two more years in an engineering curriculum at Binghamton University or the University at Buffalo (or at other select universities). The end result is two bachelor’s degrees in five years. Students who complete 3+2 engineering programs often find themselves choosing between excellent opportunities in graduate school and industry.
  - University at Buffalo
  - Architecture
    - Alfred State
    - University at Buffalo
  - Architectural Design and Building
    - Delhi
  - Architectural Engineering Technology
    - Alfred State
    - Farmingdale
  - Architectural Studies & Design
    - Morrisville
  - Architectural Technology
    - Alfred State
    - Delhi
    - Dutchess
    - Hudson Valley
    - Onondaga
    - Orange
  - Civil Engineering
    - University at Buffalo
    - Stony Brook
    - SUNY Poly
  - Civil and Environmental Engineering Technology
    - Canton
  - Civil Engineering Technology
    - Broome
    - Canton
    - Erie
    - Hudson Valley
    - Mohawk Valley
    - Nassau
    - SUNY Poly
    - Westchester
  - Construction Engineering Technology
    - Alfred State
  - Construction Management
    - Nassau
  - Construction Management: Design & Building
    - Delhi
  - Construction Management Engineering Technology
    - Alfred State
    - Erie
    - Farmingdale
  - Construction Technology
    - Delhi
    - Erie
    - Fulton-Montgomery
    - Hudson Valley
    - Monroe
    - Sullivan
    - Tompkins Cortland
  - Construction Technology: Architectural Technology
    - Suffolk County
  - Construction Technology Management
    - Canton
    - Dutchess
  - Land Surveying Technology
    - Environmental Science & Forestry
  - Residential Construction
    - Morrisville
  - Surveying Engineering Technology
    - Alfred State
    - Surveying Technology
    - Mohawk Valley
    - Sullivan

**Key:** B = Bachelor’s Degree  A = Associate Degree  C = Certificate

**EXPLORE**

**BUILD**

**SUSTAIN**

**ADVANCE**

**SOAR**

**CREATE**

**Engineering Your Career**

- Applying agricultural and science principles to explore, identify hazards or to improve the natural environment.
- Agricultural Engineering Technology
  - Morrisville

- Agricultural Engineering Technology: Agricultural Power Machinery
  - Cobleskill

- Agricultural Mechanics
  - Morrisville

- Environmental Engineering
  - University at Buffalo

- Environmental Resources Engineering
  - Environmental Science & Forestry

- Renewable Energy Technology
  - Morrisville

- Bridging the gap between medicine, engineering and biomedical research to improve healthcare.
- Bioengineering
  - Binghamton

- Biomedical Engineering
  - University at Buffalo
  - Stony Brook

- Biomaterials Engineering
  - NYS College of Ceramics at Alfred University

- Focusing on the design, construction and science of aircraft and spacecraft that stay within the Earth’s atmosphere or operate outside of it.
- Aeronautical Science – Professional Pilot
  - Farmingdale

- Aerospace Engineering
  - University at Buffalo

- Converting raw materials to products and designing plants, equipment and nuclear reactors to perform the work.
- Bioprocess Engineering
  - Environmental Science & Forestry

- Paper Engineering
  - Environmental Science & Forestry

- Ceramic Engineering
  - NYS College of Ceramics at Alfred University

- Chemical Engineering
  - University at Buffalo

- Chemical and Molecular Engineering
  - Stony Brook

- Applying agricultural and science principles to explore, identify hazards or to improve the natural environment.
- Agricultural Engineering Technology
  - Morrisville

- Agricultural Engineering Technology: Agricultural Power Machinery
  - Cobleskill

- Agricultural Mechanics
  - Morrisville

- Environmental Engineering
  - University at Buffalo

- Environmental Resources Engineering
  - Environmental Science & Forestry

- Renewable Energy Technology
  - Morrisville

- Bridging the gap between medicine, engineering and biomedical research to improve healthcare.
- Bioengineering
  - Binghamton

- Biomedical Engineering
  - University at Buffalo
  - Stony Brook

- Biomaterials Engineering
  - NYS College of Ceramics at Alfred University

- Focusing on the design, construction and science of aircraft and spacecraft that stay within the Earth’s atmosphere or operate outside of it.
- Aeronautical Science – Professional Pilot
  - Farmingdale

- Aerospace Engineering
  - University at Buffalo

- Converting raw materials to products and designing plants, equipment and nuclear reactors to perform the work.
- Bioprocess Engineering
  - Environmental Science & Forestry

- Paper Engineering
  - Environmental Science & Forestry

- Ceramic Engineering
  - NYS College of Ceramics at Alfred University

- Chemical Engineering
  - University at Buffalo

- Chemical and Molecular Engineering
  - Stony Brook

Key: B = Bachelor’s Degree  A = Associate Degree  C = Certificate
ENERGIZE

Designing and applying circuitry and equipment for power generation and distribution, machine control and communications.

Electrical & Computer Engineering
- Oswego B
- SUNY Poly B

Electrical Engineering
- Binghamton B
- University at Buffalo B
- Maritime B
- New Paltz B
- Stony Brook B

Electrical Engineering (online only)
- Stony Brook B

Electrical Engineering Technology
- Buffalo State B
- Alfred State A, B
- Broome A
- Canton A, B
- Erie A
- Farmingdale B
- Hudson Valley A
- Mohawk Valley A
- Monroe A
- Nassau A
- Onondaga A
- Suffolk County A
- SUNY Poly B
- Westchester A

Electrical Technology
- Fulton-Montgomery A

Nuclear Technology
- Onondaga A

INTEGRATE

Integrating research and education through physics, mathematics, chemistry and biology to provide a platform for multidisciplinary work in electronic and magnetic materials, polymers and composites, biomolecular and biomedical materials, materials and chemistry, nanostructured materials, materials for energy storage and generation and biomaterials, tissue engineering and drug delivery.

Engineering Physics
- University at Buffalo B

Glass Engineering Science
- NYS College of Ceramics at Alfred University B

Nanoscale Engineering
- SUNY Poly B

Nanoscale Materials Technology
- Schenectady A

Nanoscale Science
- SUNY Poly B

Materials Science & Engineering
- NYS College of Ceramics at Alfred University B

DEVELOP

Developing procedures for completing projects safely, on-time and within budget. Developing mechanical devices and systems for aerospace, air pollution, automotive, air conditioning, bioengineering, chemicals, composites, controls and design projects and industries.

Advanced Manufacturing: Machining
- Onondaga C

Applied Integrated Technology
- Monroe A

Automotive Technology
- Canton A
- Columbia-Greene A
- Corning A
- Delhi A
- Erie A
- Farmingdale A
- Fulton-Montgomery A
- Monroe C
- Morrisville A, B
- Onondaga A

Computer-Aided Drafting and Design
- Alfred State A
- Corning A, C
- Delhi A
- Erie A
- Finger Lakes A
- Genesee A, C
- Hudson Valley A, C
- Jamestown A
- Mohawk Valley A, C
- Monroe A
- Morrisville A
- Niagara A, C
- Rockland C
- Suffolk C
- Ulster A, C
- Westchester C

Electromechanical Engineering Technology
- Binghamton A

Industrial & Systems Engineering
- Binghamton B

Industrial Engineering
- University at Buffalo B

Industrial Technology
- Buffalo State B
- Farmingdale (Automotive & Facilities) B
- Ulster A, C

Industrial Technology: Quality Assurance
- Broome A, C

Industrial Technology Management
- Canton B

Instrumentation and Control Technology
- Finger Lakes A

Manufacturing Engineering Technology
- Farmingdale B

Manufacturing Technology
- Corning A
- Hudson Valley A
- Mohawk Valley A

Mechanical Engineering
- Binghamton B
- University at Buffalo B
- Maritime B
- Stony Brook B

DEVELOP (cont.)

Mechanical Engineering Technology
- Alfred State A, B
- Broome A
- Buffalo State B
- Canton A, B
- Erie A
- Farmingdale A, B
- Hudson Valley A
- Mohawk Valley A
- Morrisville A
- SUNY Poly B

Mechanical Technology
- Cayuga A
- Clinton A
- Finger Lakes A
- Jamestown A
- Niagara A
- Onondaga A
- Westchester A

Mechatronics
- Hudson Valley A
- Mohawk Valley C

Machantronics Design
- Delhi A

Plastics Manufacturing
- Cayuga A

NETWORK

Solving real-world problems, through the combined fields of electrical engineering and computer science, to develop computer systems focused on creating components for computer equipment, networking design and formulating and integrating software.

Computer Engineering
- Binghamton B
- University at Buffalo B
- New Paltz B
- Stony Brook B

Software Engineering
- Oswego B

LAUNCH

Designing, constructing and maintaining the operation of boats, ships, oil rigs and other marine vessels, including the structures to support vessels.

Facilities Engineering
- Maritime B

Marine Engineering
- Maritime B

Naval Architecture
- Maritime B

NOTES

All degrees reflect undergraduate programs only. Many engineering graduate degrees are available; to learn more visit www.suny.edu/programsearch

For more information about these academic programs, contact SUNY campuses on the web at www.suny.edu/contactcam puses

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