**Engineering Your Career**

**EXPLORE**
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**
  - Binghamton
  - University at Buffalo
- **Engineering Chemistry**
  - Stony Brook
- **Engineering Physics**
  - University at Buffalo
- **Engineering Science**
  - Adirondack
  - Alfred State
  - Canton
  - Corning
  - Dutchess
  - Erie (North)
  - Finger Lakes
  - Geneseo
  - Hudson Valley
  - Jamestown
  - Jefferson
  - Monroe
  - Mohawk Valley
  - Morrisville
  - Nassau
  - Onondaga
  - Orange
  - Rockland
  - Stony Brook
  - Suffolk
  - Tompkins Cortland
  - Ulster
  - Westchester
- **Engineering Studies**
  - Niagara
- **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.
  - Buffalo State
  - Cortland
  - Fredonia
  - Geneseo
  - Oneonta
  - Oswego
  - Potsdam

**BUILD**
Building the physical and natural environment through design and infrastructure management.

- **Architecture**
  - Alfred State
  - University at Buffalo
- **Architectural Design and Building**
  - Delhi
- **Architectural Engineering Technology**
  - Farmingdale
- **Architectural Studies & Design**
  - Morrisville
- **Architectural Technology**
  - Alfred State
  - Delhi
  - Dutchess
  - Finger Lakes
  - Hudson Valley
  - Onondaga
  - Orange
- **Civil Engineering**
  - University at Buffalo
  - Stony Brook
- **Civil Engineering Technology**
  - Canton
- **Civil Engineering Technology**
  - Binghamton
  - Stony Brook
  - SUNY Poly
- **Civil and Environmental Engineering Technology**
  - Canton
- **Civil Engineering Technology**
  - Binghamton
  - Canton
  - Erie (North)
  - Hudson Valley
  - Mohawk Valley
  - Nassau
  - SUNY Poly
- **Civil Technology**
  - Westchester
- **Construction Engineering Technology**
  - Alfred State
- **Construction Management**
  - Alfred State
  - Environmental Science and Forestry
  - Nassau
- **Construction Management: Design & Building**
  - Delhi
- **Construction Management Engineering Technology**
  - Erie (North)
  - Farmingdale
- **Construction Supervision**
  - Alfred State
- **Construction Technology**
  - Delhi
  - Hudson Valley
  - Monroe
- **Construction Technology: Architectural Technology**
  - Suffolk
- **Construction Technology/Preservation Carpentry**
  - Columbia-Greene
- **Construction Technology Management**
  - Canton
- **Dutchess**
- **Construction Technology: Sustainable Building**
  - Fulton-Montgomery
- **Electrical Construction & Instrumentation**
  - Delhi
- **Electrical Construction & Maintenance Electrician**
  - WNY Workforce Training Center
  - Alfred State
- **Land Surveying Technology**
  - Environmental Science & Forestry

**SUSTAIN**
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
- **Clean Energy Management**
  - Hudson Valley
- **Environmental Engineering**
  - University at Buffalo
  - NYS College of Agriculture & Life Sciences at Cornell
- **Environmental & Sustainable Engineering**
  - Albany
- **Environmental Resources Engineering**
  - Environmental Science & Forestry
- **Renewable Energy Technology**
  - Morrisville

**ADVANCE**
Bridging the gap between medicine, engineering and biomedical research to improve healthcare.

- **Biomedical Engineering**
  - Binghamton
  - University at Buffalo
  - Stony Brook
- **Biomaterials Engineering**
  - NYS College of Ceramics at Alfred University

**SOAR**
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
  - Remotely Piloted Aircraft Systems
  - Mohawk Valley

**CREATE**
Converting raw materials to products and designing plants, equipment and nuclear reactors to perform the work.

- **Bioprocess Engineering**
  - Environmental Science & Forestry
- **Renewable Materials Science**
  - Environmental Science & Forestry
- **Ceramic Engineering**
  - NYS College of Ceramics at Alfred University
- **Chemical Engineering**
  - University at Buffalo
- **Chemical and Molecular Engineering**
  - Stony Brook

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