The NC Aerospace Initiative connects a variety of enterprises in the aerospace sector that are working to promote the industry's growth. The NCAI is a coalition of aerospace interests that have come together to align these enterprises and to act as a clearinghouse for all things aerospace. This resource guide is a product of the NCAI initiative.

Universities & Colleges

Aviation and Aerospace Related Training
Undergraduate and Graduate Degree Programs
(Statewide)

Aviation and Aerospace Disciplines

Aeronautics

Program Description
Aeronautics curriculum is closely mapped to the needs and demands of the aviation/aerospace industry and to general education guidelines.

Embry-Riddle Aeronautical University-
Worldwide

Guilford Technical Community

College
260 N. Regional Road
c/o GTCC Aviation Center
Greensboro, NC 27409
336-665-9401
Greensboro@erau.edu
http://worldwide.erau.edu/locations/greensboro

Elizabeth City

U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225
ElizabethCity@erau.edu
http://worldwide.erau.edu/locations/elizabeth-city

Associate in Science (AS)
Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)

PhD: Embry-Riddle offers this program primarily online with the inclusion of three six-day residencies at designated campuses. This way, you can continue working while you get your degree.

Modes of Instruction:
Classroom
Online
EagleVision Home
Blended Program
Aviation Business Administration

Program Description
The Bachelor of Science in Aviation Business Administration explores all facets of business administration and management, including: Economics, Aeronautical Science, Business Statistics & Accounting, Business Marketing & Management and International Business.

Embry-Riddle Aeronautical University-Worldwide
Associate in Science (AS)
Bachelor of Science (BS)

Elizabeth City
U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225
ElizabethCity@erau.edu
http://worldwide.erau.edu/locations/elizabeth-city

Modes of Instruction:
- Classroom
- Online
- EagleVision Home
- EagleVision Classroom

Aviation Maintenance

Program Description
In addition to gaining critical skills needed to succeed in an aviation maintenance career, students will specialize in one of two maintenance functions: Management or Safety.

Embry-Riddle Aeronautical University-Worldwide
Associate in Science (AS)
Bachelor of Science (BS)

Guilford Technical Community College
260 N. Regional Road
c/o GTCC Aviation Center
Greensboro, NC 27409
336-665-9401
Greensboro@erau.edu
http://worldwide.erau.edu/locations/greensboro

If you hold an FAA Airframe & Powerplant Maintenance Certificate, you are awarded 24 credit hours toward the associate degree or 30 credit hours toward the bachelor's degree. Students may also earn maintenance credit as part of the overall curriculum.
Aviation Science

Program Description
The aviation programs at Elizabeth City State University offer students a comprehensive education in their chosen aviation area of study. Moreover, the curriculum offers general education and liberal arts courses that are intended to help students to broaden their perspectives about themselves and their careers while, at the same time, giving them the knowledge and confidence to be successful in the competitive fields of aviation and aerospace.

Elizabeth City State University
1704 Weeksville Road
Elizabeth City, NC 2790

Contact:
Kuldeep Rawat
Associate Professor/Director of Aviation Science
252-335-3846
ksrawat@mail.ecsu.edu
www.ecsu.edu/academics/mathsciencetechology/technology/aviation

Bachelor of Science in Aviation Science
Minors Available
Aviation Management
Computer Science
Electronics
Avionics
Flight Education
Public Administration
Space Science
Air Traffic Control (to be proposed)

Technical Management

Program Description
Students in the Technical Management degree program learn to apply management skills to their technical specialty and have the opportunity to focus in one of the six areas of specialization: Engineering Sciences, Information Security, Logistics, Management of Information Systems, Occupational Safety & Health and Project Management.

Emory-Riddle Aeronautical University-Worldwide
Guilford Technical Community College

PhD:  Embry-Riddle offers this program primarily online with the inclusion of three six-day residencies at designated campuses. This way, you can continue working while you get your degree.
Elizabeth City
U.S. Coast Guard Station
1664 Weeksville Rd., Building 45
Elizabeth City, NC 27909
252-331-2225
ElizabethCity@erau.edu
http://worldwide.erau.edu/locations/elizabeth-city

Fort Bragg
Soldier Development Center, Building 2-1728,
Room 320,
231 Armistead Street
Fort Bragg, NC 28307
910-339-1567
FortBragg@erau.edu
http://worldwide.erau.edu/locations/fort-bragg

Seymour Johnson
1520 Goodson Street
Seymour Johnson AFB, NC 27531
919-734-9211
SeymourJohnson@erau.edu
http://worldwide.erau.edu/locations/seymour-johnson

Engineering Disciplines

Aerospace Engineering

Program Description
The Aerospace Engineering degree program prepares its graduates for careers in aircraft and space systems design, analysis and manufacturing.

North Carolina State University
Department of Mechanical & Aerospace Engineering
Engineering Bldg 3, Campus Box 7910
911 Oval Drive
Raleigh, NC 27695-7910

Contact:
Dr. Richard Gould
R J Reynolds Professor & Department Head
919-515-2368
gould@eos.ncsu.edu
www.mae.ncsu.edu

Bachelor of Science (BS)
Master of Science (MS) and
Doctor of Philosophy (PhD)

Mechanical Engineering (ME)
Aerospace Engineering (AE).

Accelerated BS/MS and direct path to
PhD options in both ME and AE.

Graduation in May and December

Civil Engineering

Program Description
Programs focus on building durable infrastructure to support communities with safe and efficient energy, shelter and transportation. Students learn how to plan, design, construct, operate and maintain public infrastructures.
<table>
<thead>
<tr>
<th>University</th>
<th>Programs Offered</th>
<th>Contact</th>
</tr>
</thead>
</table>
| Duke University                                 | Bachelor of Science (BS)                                                          | Tom Katsouleas, Professor and Vinik Dean of Engineering
|                                                | Master of Science (MS) and Doctor of Philosophy (PhD)                              | 919-660-5389
tom.katsouleas@duke.edu
www.cee.duke.edu
|                                                | Certificate in Aerospace Engineering                                               | The 4+1 program offers students with enough credits to begin taking graduate courses towards a master's degree during senior year. Master of Engineering, Master of Science or Master of Engineering Management. |
| North Carolina A&T University                  | Bachelor of Science (BS)                                                          | Sameer A. Hamoush, Ph.D., P.E.
Chairman, Civil, Architectural and Environmental Engineering Department
336-285-3677
sameer@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/caee |
|                                                | Master of Science (MS)                                                            | Civil and Architectural Engineering
Dual degrees possible in Architectural and Civil Engineering. Masters Degree offers three majors: Building Energy; Civil Infrastructures; and Environmental / Water Resources |
| North Carolina State University                 | Bachelor of Science (BS)                                                          | Dr. Paul Khosla, Director, CTES and TMRC/Professor
919-515-7835
khosla@eos.ncsu.edu
www.ce.ncsu.edu |
|                                                | Master of Science (MS)                                                            | Seven graduate programs: computing & systems, construction engineering and management, water resources and environmental engineering, structural engineering and mechanics, transportation systems and materials, and geotechnical/geoenvironmental engineering. |
|                                                | Seven graduate programs: computing & systems, construction engineering and management, water resources and environmental engineering, structural engineering and mechanics, transportation systems and materials, and geotechnical/geoenvironmental engineering. |
| University of North Carolina at Charlotte       | Bachelor of Science (BS)                                                          | Anthony (Tony) Brizendine, Ph.D., PE, PLS.
Professor, Department Chairman
704-687-5050
albrizen@uncc.edu
http://cee.uncc.edu |
|                                                | Master of Science (MS) and Doctor of Philosophy (PhD)                              | Offers three graduate degrees: Master of Science in Civil Engineering or Engineering and PhD in Infrastructure and Environmental Systems. |

**Computational Science and Engineering**

**Program Description**
Computational technology is a crucial methodology for all sciences, even those that are not traditionally computationally-intensive (such as the humanities and social sciences). Graduates will acquire a wide range of computational skills that will allow them to solve large-scale data-intensive and real-life problems.
North Carolina A&T State University
Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411
Contact:
Dr. Marwan Bikdash
Professor and Director
Computational Science and Engineering
336-334-7437
bikdash@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/cse

Computer Engineering

Program Description
Programs focus not on just how computer systems are engineered or built but how they can be applied to address societal needs. Students receive instruction and research in areas such as: power systems, optoelectronics, digital systems, VLSI design, data communications and networking, automatic control systems, electronics, embedded systems, microelectronics, power electronics, robotics, nanotechnology, and biomedical engineering.

North Carolina A&T State University
Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411
Contact:
John C. Kelly, Ph.D.
Chairman, Electrical and Computer Engineering Department
336-334-7760, ext. 210
jck@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/elen

Bachelor of Science (BS)
Computer Engineering
Electrical Engineering

University of North Carolina at Charlotte
The William States Lee College of Engineering
Electrical and Computer Engineering
9201 University City Boulevard
Charlotte, NC 28223-0001
Contact:
Dr. Ian Ferguson, Ph.D.
Professor and Department Chairman
704-687-8404
ianf@uncc.edu
http://ece.uncc.edu

Bachelor of Science (BS)
**Electrical and Computer Engineering**

**Program Description**
The Program emphasizes analytical thinking, problem solving, and technology, and each fosters the development of ethical leadership, communication, and teamwork skills. Students have five areas of concentration to choose: Computer Engineering and Digital Systems; Signal Processing, Communications, and Control Systems; Solid-State Devices and Integrated Circuits; Electromagnetic Fields; Photonics.

**Duke University**
129 Hudson Hall
Box 90291
Durham NC 27708

**Contact:**
Lawrence Carin
Chair, Professor of Electrical and Computer Engineering
(919) 660-5270
lcarin@ee.duke.edu
www.ece.duke.edu

**Bachelor of Science (BS)**
Certificate in Aerospace Engineering

**North Carolina A&T State University**
Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411

**Contact:**
John C. Kelly, Ph.D.
Chairman, Electrical and Computer Engineering Department
336-334-7760, ext. 210
jck@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/elen

**Bachelor of Science (BS)**
**Master of Science (MS)**
**Doctor of Philosophy (PhD)**

**North Carolina State University**
3098 Engr Bldg II
Campus Box 7911

**Contact:**
Dr. Daniel Stancil
Department Head, Electrical and Computer Engineering
919-513-3606
ddstancil@ncsu.edu
www.ece.ncsu.edu/undergraduate/electrical_engineering

**Bachelor of Science (BS)**
**Master of Science (MS)**
**Doctor of Philosophy (PhD)**

**Electrical Engineering**

**Program Description**
Curriculums provide students with the opportunity to explore practical engineering and scientific concepts to create solutions for the engineering challenges of the future. Students should love math, have strong study habits, the ability to visualize abstract concepts, and a willingness to explore and create new designs from first principles.

**North Carolina A&T State University**
Electrical and Computer Engineering
1601 E. Market Street
Greensboro, NC 27411

**Contact:**
John C. Kelly, Ph.D.
Chairman, Electrical and Computer Engineering Department
336-334-7760, ext. 210
jck@ncat.edu
www.ncat.edu/academics/schools-colleges1/coe/elen

**Bachelor of Science (BS)**
**Master of Science (MS)**
**Doctor of Philosophy (PhD)**

**North Carolina State University**
3098 Engr Bldg II
Campus Box 7911

**Contact:**
Dr. Daniel Stancil
Department Head, Electrical and Computer Engineering
919-513-3606
ddstancil@ncsu.edu
www.ece.ncsu.edu/undergraduate/electrical_engineering

**Bachelor of Science (BS)**
**Master of Science (MS)**
**Doctor of Philosophy (PhD)**
### University of North Carolina at Charlotte
The William States Lee College of Engineering
Electrical and Computer Engineering
9201 University City Boulevard
Charlotte, NC 28223-0001

**Contact:**
Dr. Ian Ferguson, Ph.D.
Professor and Department Chairman
704-687-8404
ianf@uncc.edu
http://ece.uncc.edu

### Western Carolina University
Department of Engineering and Technology
220 Belk Building
389 Centennial Drive
Cullowhee, NC 28723

**Contact:**
Robert Adams
Ph.D., Interim Department Head, Associate Professor,
EE & ECET Program Director
828-227-2181
radams@wcu.edu
www.wcu.edu/academics/departments-schools-colleges/Kimmel/academic-programs-degrees-offered/engtech/ee

#### Bachelor of Science (BS)
Master of Science (MS)

#### New Programs:
- Engineering-Mechanical Engineering Concentration, B.S.
  (EAC of ABET Accreditation to be sought in 2017.)

#### Other Programs
- Engineering Technology - Technical Operations, B.S. Off-Site Program
  (This program is not Accredited by ABET.)

### Fayetteville State University
Department of Mathematics and Computer Science
1200 Murchison Road
Fayetteville, NC 28301

**Contact:**
Dr. Cevdet Akbay, Chair
910-672-1943, STB 305
cakbay@uncfsu.edu
www.uncfsu.edu/fsu-ncsu-engineering

#### Bachelor of Science (BS)
The BS in Engineering at Fayetteville State University and North Carolina State University is a "3 + 2" Dual Degree Program. Students can earn two Bachelor of Science degrees in 5 years—one from each institution. Four engineering programs are offered: Chemical Engineering, Computer Engineering, Electrical Engineering, Civil Engineering.

### North Carolina State University at the University of North Carolina at Asheville
NC State University Engineering Programs:
UNC Asheville CPO#2360
One University Heights
Asheville, NC 28804-8511

**Contact:**
Dr. Stephen Walsh
Director

#### Bachelor of Science (BS)
NC State University Bachelor of Science in Engineering degree - Mechatronics Concentration (JEM) - Administered on the campus of UNC Asheville. Comprises course work from the Departments of Mechanical and Aerospace Engineering (MAE), Electrical and Computer Engineering (ECE) and Mechatronics.

### Engineering

**Program Description**
Engineering programs are project based learning with high faculty-student interaction. Students will learn the application of scientific, economic, social and practical knowledge to prepare them to design, build and improve systems, structures, machines and other high tech devices.
From the University of North Carolina at Asheville comes an engineering-themed Humanities and Social Science component with a rich liberal arts foundation.

**East Carolina University**  
Department of Technology Systems  
Science and Technology Building, Suite 201  
Greenville, NC 27858  
**Contact:**  
Dr. Hayden Griffin  
Engineering Chair  
252-7373-1026  
griffin@ecu.edu  
www.ecu.edu/cs-tecs/engineering

Bachelor of Science (BS)  
Offers five areas of concentration: Biomedical Engineering, Bioprocess Engineering, Electrical Engineering, Industrial and Systems Engineering, Mechanical Engineering

<table>
<thead>
<tr>
<th>Program Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students learn to make decisions concerning the best use of people, material, equipment, and energy in achieving an organization's aims. The industrial engineer systematically collects, analyzes, and arranges factual information in such a way as to fulfill management's needs.</td>
</tr>
</tbody>
</table>

**North Carolina State University**  
Industrial & Systems Engineering  
400 Daniels Hall  
College of Engineering  
North Carolina State University  
Raleigh, NC 27695  
**Contact:**  
Paul Cohen  
Edgar S. Woolard Distinguished Professor & Department Head  
(919) 513-2857  
pcohen@ncsu.edu  
www.ise.ncsu.edu

Bachelor of Science (BS)  
Master of Science (MS)  
Doctor of Philosophy (PhD)  
Three Masters degree programs are currently offered: Master of Industrial Engineering, MIE; the Master of Science in Industrial Engineering, MSIE; and the dual Master of Industrial Engineering/Master of Business Administration, MIE/MBA. In addition, we offer a Doctorate (PhD) in Industrial Engineering.

<table>
<thead>
<tr>
<th>Program Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Program transforms the industrial and systems engineering pipeline by providing educational and research experiences relevant to societal and industry needs and enabling individual development into technically proficient, culturally competent, collaborative leaders making a positive difference for their employers, communities, and the discipline; always embracing excellence in performance and conduct.</td>
</tr>
</tbody>
</table>

**North Carolina A&T University**  
Industrial & Systems Engineering  
1601 E. Market Street  
Greensboro, NC 27411  
**Contact:**  
Dr. Tonya Smith-Jackson  
Department Chair

Bachelor of Science (BS)  
Master of Science (MS)  
Doctor of Philosophy (PhD)
Materials Science Engineering

Program Description
The mission is to provide students with a sound materials engineering education, advance the understanding and application of scientific principles, enhance economic development, and improve the quality of life of citizens. Students are exposed to modern materials engineering principles and have access to modern equipment and technology.

North Carolina State University
Department of Materials Science and Engineering
911 Partners Way
EB I, Room 3002
Raleigh, NC 27695-7907
Contact:
Justin Schwartz
Department Head and Kobe Steel Distinguished Professor
919-515-0493
justin_schwartz@ncsu.edu
www.mse.ncsu.edu

North Carolina A&T University
Mechanical Engineering Department
1601 East Market Street
Greensboro, NC 27411
Contact:
Samuel P. Owusu-Ofori
Professor and Chairperson
336-285-3748

Mechanical Engineering

Program Description
Mechanical engineering involves practical application of mechanical and thermal sciences to research, design, development, testing and manufacturing of a wide variety of products. Programs have evolved to include areas such as robotics, mechatronics, precision engineering, automated manufacturing systems, combustion and propulsion.

Duke University
Department of Mechanical Engineering and Materials Science
Box 90300 Hudson Hall
Durham, NC 27708-0287
Contact:
Earl H. Dowell
Chair
919-660-5302
dowell@mail.ee.duke.edu
www.mems.duke.edu

North Carolina A&T University
Mechanical Engineering Department
1601 East Market Street
Greensboro, NC 27411
Contact:
Samuel P. Owusu-Ofori
Professor and Chairperson
336-285-3748

Bachelor of Science-Engineering (BSE)
Master of Science (MS)
Master of Engineering (MEng)
Doctor of Philosophy (PhD)
Certificate in Aerospace Engineering

4+1: BSE+Master's Degree can be obtained in five years. The school recently launched an undergraduate certificate programs with specialization in Aerospace Engineering.

Bachelor of Science (BS) in Mechanical Engineering
Master of Science (MS) in Mechanical Engineering
Doctor of Philosophy (PhD)

The undergraduate degree program has an Aerospace Option for students who are
University of North Carolina at Charlotte
9201 University City Boulevard
Charlotte, NC 28223-0001

Contact:
Dr. Ertunga C. Ozelkan
Associate Professor, Interim Chair of Systems Engineering & Engineering Management
704-687-1952
ecozelka@uncc.edu
https://seem.uncc.edu

Bachelor of Science (BS)
Master of Science (MS)
Doctor of Philosophy (PhD)

SEEM partners with the Ph.D. programs of the Electrical and Computer Engineering, and Mechanical Engineering and Engineering Science Departments. As a result, doctoral studies in the areas of systems engineering and engineering management may be possible through the Ph.D. program in Mechanical Engineering, and the Ph.D. program in Electrical Engineering.
## Computer Science Disciplines

### Program Description
Computer Science is focused more on the creative engineering aspects of software design & development than merely on programming. Curriculum provides students with exposure to areas such as: Game Design, Cyber Security, Robotics, Software Engineering, and Computational Science & Engineering.

<table>
<thead>
<tr>
<th>Appalachian State University</th>
<th>Bachelor of Science (BS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 32133</td>
<td>Master of Science (MS)</td>
</tr>
<tr>
<td>CAP Science Building</td>
<td>The curriculum includes a balance</td>
</tr>
<tr>
<td>Boone, NC</td>
<td>between theory and applications and is</td>
</tr>
<tr>
<td>28608-2133</td>
<td>built around a core of required courses in</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>the basic areas of computer science.</td>
</tr>
<tr>
<td>Dr. James Wilkes</td>
<td></td>
</tr>
<tr>
<td>Chairperson</td>
<td></td>
</tr>
<tr>
<td>828-262-2370</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:jtw@cs.appstate.edu">jtw@cs.appstate.edu</a></td>
<td></td>
</tr>
<tr>
<td><a href="http://compsci.appstate.edu">http://compsci.appstate.edu</a></td>
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</table>

<table>
<thead>
<tr>
<th>Fayetteville State University</th>
<th>Bachelor of Science (BS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mathematics and Computer Science</td>
<td>FSU is the only NC higher education institution to win an award from the Institute for Personal Robots in Education (IPRE). The school received paperback book-sized robots called Scribblers to enhance curriculum using the robots as a context for teaching foundational computing skills.</td>
</tr>
<tr>
<td>1200 Murchison Road</td>
<td></td>
</tr>
<tr>
<td>Fayetteville, NC 28301</td>
<td></td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
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<tr>
<td>Dr. Dwight House</td>
<td></td>
</tr>
<tr>
<td>Chair</td>
<td></td>
</tr>
<tr>
<td>910-672-1111</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:dhouse@uncfsu.edu">dhouse@uncfsu.edu</a></td>
<td></td>
</tr>
<tr>
<td><a href="http://www.uncfsu.edu/macsc">http://www.uncfsu.edu/macsc</a></td>
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<table>
<thead>
<tr>
<th>North Carolina A&amp;T University</th>
<th>Bachelor of Science (BS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Department</td>
<td>Master of Science (MS)</td>
</tr>
<tr>
<td>1601 E. Market Street</td>
<td></td>
</tr>
<tr>
<td>Greensboro, NC 27411</td>
<td></td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td></td>
</tr>
<tr>
<td>Gerry V. Dozier, Ph.D.</td>
<td></td>
</tr>
<tr>
<td>Chairman and Professor</td>
<td></td>
</tr>
<tr>
<td>336-285-3693</td>
<td></td>
</tr>
<tr>
<td>gw <a href="mailto:dozier@ncat.edu">dozier@ncat.edu</a></td>
<td></td>
</tr>
<tr>
<td><a href="http://www.ncat.edu/academics/schools-colleges1/coe/comp">www.ncat.edu/academics/schools-colleges1/coe/comp</a></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>North Carolina State University</th>
<th>Bachelor of Science (BS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Computer Science</td>
<td>Master of Science (MS)</td>
</tr>
<tr>
<td>890 Oval Drive, Campus Box 8206</td>
<td>Doctor of Philosophy (PhD)</td>
</tr>
<tr>
<td>Raleigh, NC 27695-8206</td>
<td>Master's Degree Program offers: Master of Science (thesis), Master of Computer Science (non-thesis) and Master of Computer Networking (thesis or non-thesis).</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td></td>
</tr>
<tr>
<td>Dr. Mladen Vouk, Department Head</td>
<td></td>
</tr>
<tr>
<td>919-513-0348</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:vouk@csc.ncsu.edu">vouk@csc.ncsu.edu</a></td>
<td></td>
</tr>
<tr>
<td><a href="http://www.csc.ncsu.edu">http://www.csc.ncsu.edu</a></td>
<td></td>
</tr>
</tbody>
</table>
### University of North Carolina at Greensboro
Department of Computer Science  
67 Petty Building  
Greensboro, NC 27402-6170  
**Contact:**  
Steve Tate  
Professor and Department Head  
336.256.1112 - Petty 166  
srtate@uncg.edu  
http://www.uncg.edu/cmp

Bachelor of Science (BS)  
Master of Science (MS)  
Accelerated BS+MS Program available for students to earn both degrees in five years.

### Winston-Salem State University
Department of Computer Science  
Elva J. Jones Computer Science Building  
601 Martin Luther King Jr. Drive  
Winston-Salem, NC 27110  
**Contact:**  
Elva J. Jones, Ph.D.  
Chairperson,  
336-750-2480  
jonese@wssu.edu  
http://compsci.wssu.edu

Bachelor of Science (BS)  
Master of Science (MS)

Offer three degree programs: Bachelor of Science in Computer Science, Bachelor of Science in Information Technology, Master of Science in Computer Science and Information Technology.

### Computer Science – System Option
**Program Description**  
The Program enables students to achieve the following:  
Knowledge of mathematical, algorithmic, and computing principles appropriate to the design and implementation of computer-based systems;  
Apply analysis, design, development, and testing principles in the construction of software systems;  
Function effectively on a software development team;  
and Communicate effectively on technical subject matters.

### University of North Carolina at Wilmington
Department of Computer Science  
CIS Building, Room 2010  
601 South College Road  
Wilmington, NC 28403  
**Contact:**  
Dr. Laurie Patterson  
Department Chair, Associate Professor  
910-962-3906  
pattersonl@uncw.edu  
http://uncw.edu/csc

Bachelor of Science (BS)  
Master of Science (MS)  
The Master of Science in Computer Science and Information Systems (MSCSIS) degree is part of the Professional Science Master's (PSM) Program, new graduate degrees designed to allow students to pursue advanced training in science or mathematics, while simultaneously developing workplace skills highly valued by employers.

### Information Technology
**Program Description**  
The Computer Science (CS) program prepares students for a wide range of career opportunities. Career paths are: computer programming, computer system analyst, database administration, network administration, applications development/ support, computer-aided design, computer-aided engineering, software engineering, computer graphics, visualization, imaging, Internet applications development, computational science, and hardware support.
Winston-Salem State University
Department of Computer Science
Elva J. Jones Computer Science Building
601 Martin Luther King Jr. Drive
Winston-Salem, NC 27110
Contact:
Elva J. Jones, Ph.D.
Chairperson,
336-750-2480
jonese@wssu.edu
http://compsci.wssu.edu

Bachelor of Science (BS)
Master of Science (MS)
Offer three degree programs: Bachelor of Science in Computer Science, Bachelor of Science in Information Technology, Master of Science in Computer Science and Information Technology.

Technology Disciplines

Civil Engineering Technology

Program Description
The Civil Engineering Technology program at UNC Charlotte includes education, research, and technology development in the following areas of Civil Engineering Technology: Structures; Construction; Transportation; Water Resources; and Geotechnical.

University of North Carolina at Charlotte
The William States Lee College of Engineering
Engineering Technology and Construction Management
9201 University City Boulevard
Charlotte, NC 28223-0001
Contact:
Anthony (Tony) Brizendine, Ph.D., PE, PLS.
Professor, Department Chairman
704-687-5050
albrizen@uncc.edu
http://et.uncc.edu

Bachelor of Science (BS)
Master of Science (MS)
Undergraduate programs include: Civil Engineering Technology, Construction Management, Electrical Engineering Technology, Fire Safety Engineering Technology, Mechanical Engineering Technology
Graduate programs include Construction and Facilities Management and Fire Protection and Administration

Electrical Engineering Technology

Program Description
The Program graduates of the Bachelor of Science in Engineering Technology (B.S.E.T.) program for careers across a broad spectrum of technologies. Course-work includes: Linear Circuits; Digital Logic and Systems; Microprocessors, Microcontrollers and Embedded Systems; Electronic Circuits and Systems; Control Systems; and Power Systems.

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Bachelor of Science (BS)
Master of Science (MS)
Undergraduate programs include: Civil Engineering Technology, Construction Management, Electrical Engineering Technology, Fire Safety Engineering Technology, Mechanical Engineering Technology
Graduate programs include Construction and Facilities Management and Fire Protection and Administration
Electrical and Computer Engineering Technology

Program Description
The program emphasizes the application of microcomputers to the solution of industrial problems relating to automation, instrumentation, and control, in systems involving robotics, data communications, networks, and/or automated testing. In all cases, microcomputer hardware and software are used for data acquisition, transfer, and analysis.

Western Carolina University
Department of Engineering and Technology
220 Belk Building
389 Centennial Drive
Cullowhee, NC 28723
Contact:
Robert Adams
Ph.D., Interim Department Head, Associate Professor, EE & ECET Program Director
828-227-2181
radams@wcu.edu
www.wcu.edu/academics/departments-schools-colleges/Kimmel/academic-programs-degrees-offered/engtech/ecet

Bachelor of Science (BS)
Master of Science (MS)
New Programs:
Engineering-Mechanical Engineering Concentration, B.S. (EAC of ABET Accreditation to be sought in 2017.)

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Electronics Engineering Technology

Program Description
Graduates of this degree program design, install, maintain, and repair electrical and electronic equipment.

ECPI University – School of Technology

Charlotte Location:
4800 Airport Center Parkway
Charlotte, NC 28208
866-708-6167
www.ecpi.edu/technology/location/charlotte

Concord Location:
124 Floyd Smith Drive
Charlotte, NC 28262
866-708-6169
www.ecpi.edu/technology/location/charlotte-concord

Greensboro Location:
7802 Airport Center Drive
Greensboro, NC 27409
336-665-1400
www.ecpi.edu/technology/location/greensboro

Raleigh Location:
4101 Doie Cope Road
Raleigh, NC 27613
866-708-6173
www.ecpi.edu/technology/location/raleigh

Bachelor of Science
Associate Degree
Concentration in mechatronics available.
Must earn 124 semester credit hours. Program requires a minimum of 8 semesters or 30 months of instruction.
In 2.5 years, through the year-round schedule, students can earn a Bachelor Degree.

ECPI provides students in this program with vouchers to take certification exams at a greatly reduced cost. Available certifications for this program include Fiber Optics Installer (FOI), Fiber Optics Technician (FOT), A+ Certification, Network+ Certification, Security+ Certification, GMDSS - Global Maritime Distress and Safety System Maintainer License, GROL - General Radiotelephone Operator's License, and Associate CET.
Program Description
The mission of the Engineering Technology Program is to prepare graduates with the technical and managerial skills necessary to enter careers in process and systems design, technical sales, manufacturing operations, maintenance or service functions of a manufacturing enterprise.

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Bachelor of Science (BS)
Master of Science (MS)

New Programs:
Engineering-Mechanical Engineering Concentration, B.S. (EAC of ABET Accreditation to be sought in 2017.)

Other Programs
Engineering Technology - Technical Operations, B.S. Off-Site Program (This program is not Accredited by ABET.)

Mechanical Engineering Technology

Program Description
The Mechanical Engineering Technology program includes education, applied research, and technology development in the areas of: Machine Design – Including product design and development; Thermodynamics – Including power plant and engine design, and heating, ventilating, and air conditioning; Fluid mechanics – Including fluid flow and pipeline design; Dynamics – Including mechanical systems analysis; Instrumentation and hands-on laboratories

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Bachelor of Science (BS)

Machine Design, Thermodynamics, Fluid mechanics, Dynamics, Instrumentation and hands-on laboratories