

ETSU Computing Information

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Why Choose ETSU Computing?

ETSU's Computing Department offers a comprehensive range of programs designed to prepare you for a successful career in today's rapidly evolving technology landscape. As the **#1 Best College for Computer Information Systems in Tennessee** (CollegeFactual.com) and the **#2 Best Computer and Information Sciences College in Tennessee** (Universities.com, 2021), ETSU delivers exceptional value and quality in computing education.

Rich History & Industry-Recognized Excellence

Since 1972, the ETSU Department of Computing has evolved alongside the technology industry, maintaining a perfect balance between contemporary technical skills and foundational theory. Three of our undergraduate computing programs are accredited by the Computing Accreditation Commission of ABET, confirming that ETSU's programs meet the rigorous standards expected by industry and academia:

- B.S. in Computing with a Concentration in Computer Science
- B.S. in Computing with a Concentration in Information Systems
- B.S. in Computing with a Concentration in Information Technology

Undergraduate Concentrations: Find Your Perfect Path

ETSU Computing Undergraduate Concentrations				
	Computer Science	Information Systems	Information Technology	Cybersecurity
	ABET Accredited	ABET Accredited	ABET Accredited	ABET Accredited
Focus	Software Development Algorithms Theoretical CS	Business Applications Database Systems Enterprise Systems	Tech Infrastructure System Integration Practical Implementation	Network Security Cybersecurity Operations Threat Assessment
Key Courses	Data Structures Computer Organization Algorithms	Database Design IS Implementation Enterprise Programming	Networking Information Security System Administration	Network Security Ethical Hacking Computer Forensics
Career Paths	Software Engineer Systems Analyst Research Scientist	Business Analyst Database Administrator Systems Analyst	IT Specialist Network Administrator Systems Engineer	Security Analyst Network Security Specialist Penetration Tester

ETSU Computing offers ABET-accredited programs designed to prepare you for in-demand technology careers

www.etsu.edu/computing

ETSU Computing offers four distinct undergraduate concentrations, each designed to prepare you for specific career paths:

Computer Science (ABET Accredited)

- **Focus:** Software development, algorithms, data structures, theoretical computer science
- **Key Courses:** Data Structures, Computer Organization, Algorithms, Programming Languages
- **Career Paths:** Software engineer, systems analyst, programmer, research scientist
- **Strengths:** Strong mathematical foundation and technical depth for software development careers

Information Systems (ABET Accredited)

- **Focus:** Business applications, database systems, enterprise information systems
- **Key Courses:** Database Design, Information Systems Implementation, Enterprise Programming
- **Career Paths:** Business analyst, database administrator, systems analyst
- **Special Feature:** Choose between Accountancy or Management emphasis

Information Technology (ABET Accredited)

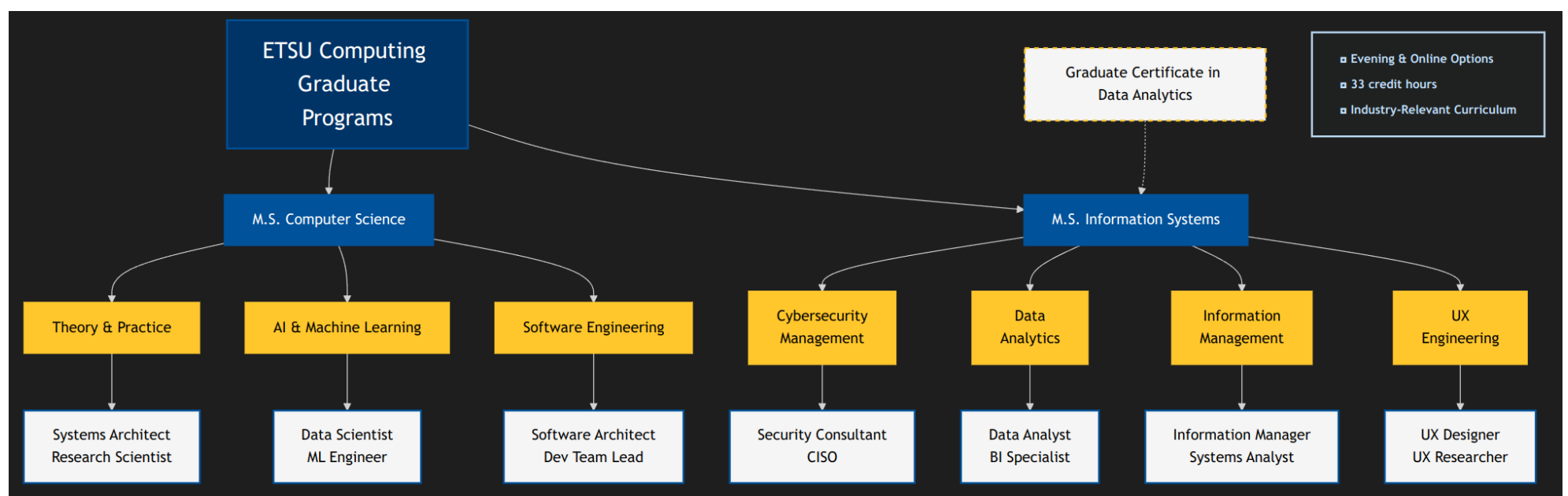
- **Focus:** Technology infrastructure, system integration, practical implementation
- **Key Courses:** Networking, Information Security, System Administration
- **Career Paths:** IT specialist, network administrator, systems engineer

- **Strengths:** Hands-on technical skills for immediate workplace application

Cybersecurity and Modern Networks (ABET Accredited)

- **Focus:** Network security, cybersecurity operations, threat assessment
- **Key Courses:** Network Security, Ethical Hacking, Computer Forensics, Risk Management
- **Career Paths:** Security analyst, network security specialist, penetration tester
- **Strengths:** Specialized training in high-demand cybersecurity skills

Graduate Programs: Advance Your Expertise



M.S. in Computer Science (33 credit hours)

All students take core courses in Software Project Management and Research Methods in Computer Science, then choose one of three concentrations:

- **CS Theory & Practice Concentration:** Focus on distributed systems, artificial intelligence, networking, and algorithms
- **AI & Machine Learning Concentration:** Specialize in computational aspects of AI and ML algorithm design
- **Software Engineering Concentration:** Gain in-depth experience in the software development lifecycle

M.S. in Information Systems (33 credit hours)

All students take core courses in Software Project Management, Research Methods, and Enterprise Information Systems, then choose one of four concentrations:

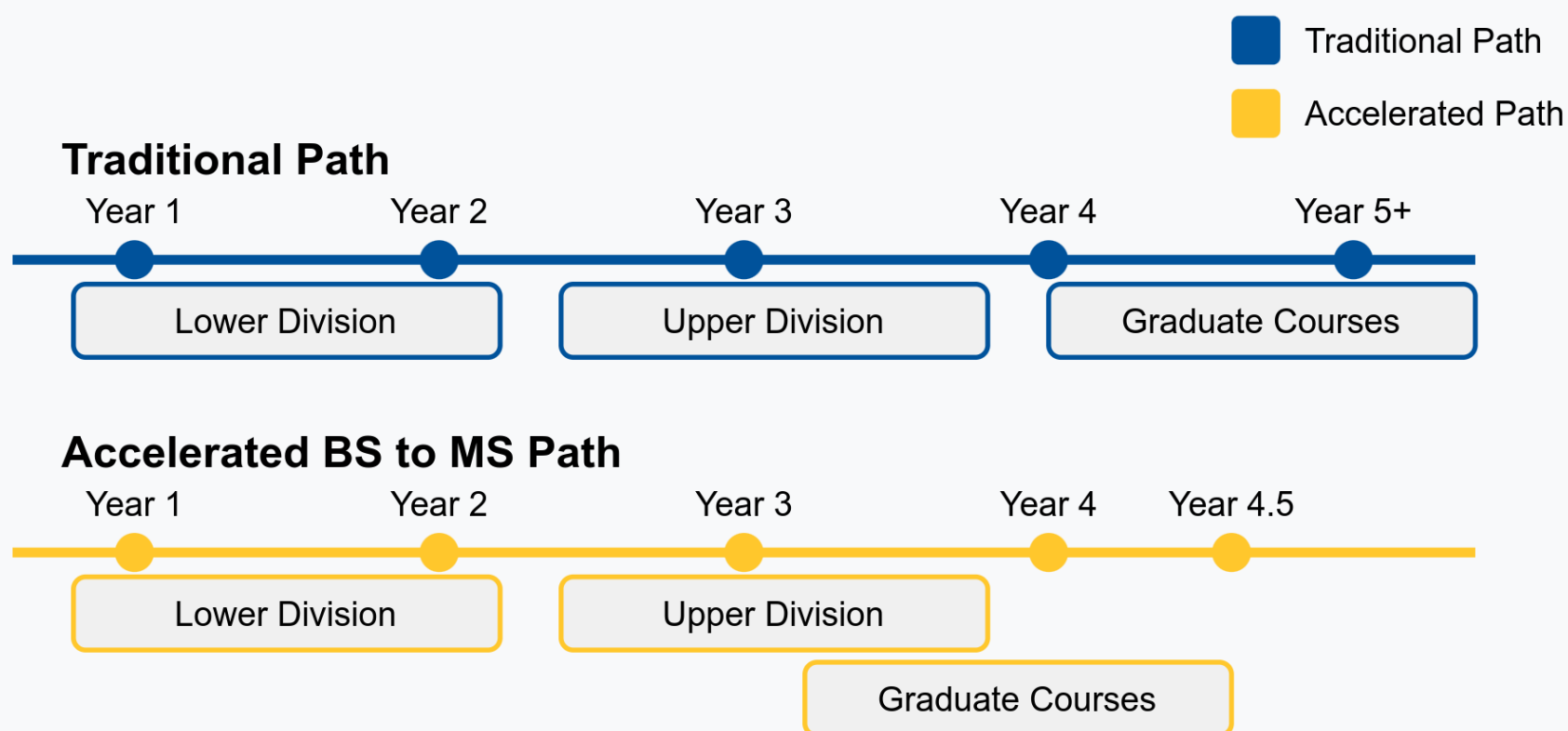
- **Cybersecurity Management Concentration:** Learn to defend physical and virtual information assets
- **Data Analytics Concentration:** Master managing, manipulating, and presenting data for business advantages
- **Information Management Concentration:** Manage information assets with a healthcare perspective
- **User Experience Engineering Concentration:** Develop effective and usable interfaces

Graduate Certificate in Data Analytics (12 credit hours)

- Quick credential focused on data analytics skills
- No prior computing background required
- Credits can count toward M.S. in Information Systems
- Ideal for professionals wanting to add data skills to their resume

Accelerated Programs: Fast-Track Your Career

ETSU Computing Accelerated Programs Timeline



Save time and money with up to 12 credits of graduate coursework at undergraduate rates!

Accelerated B.S. to M.S. Program

Get a head start on your graduate education:

- Take up to 12 credits of graduate coursework during your final undergraduate year
- Pay undergraduate tuition rates for graduate courses
- Complete your Master's degree approximately one semester earlier
- Eligibility: 75+ undergraduate credits completed with minimum 3.25 GPA

BlueSky Tennessee Institute

A groundbreaking partnership between ETSU and BlueCross BlueShield of Tennessee:

- Earn a B.S. in Computing with Information Systems concentration in just over two years
- Classes held at BlueCross campus in Downtown Chattanooga
- Build a professional portfolio throughout the program
- Opportunity to receive job offer from BlueCross upon graduation
- Special focus on recruiting high-potential students from Hamilton County's most challenged high schools

Real-World Experience: Capstone Projects

Both graduate programs offer a choice of capstone experiences:

- **Independent Project:** Complete a project under an advisor's mentorship
- **Group Software Development Project:** Work in a team to develop a complete software product
- **Research Thesis:** Research a topic and present findings to advisor and committee members

Exceptional Financial Support

ETSU Computing Scholarships and Financial Support

Exceptional Financial Support for Students

Multiple funding sources available to make your education affordable

Undergraduate Scholarships

Honors In Discipline

- Full tuition waiver
- Based on academic achievement
- Renewable for qualifying students

STEM Community Outreach

- Waive out-of-state tuition
- For new out-of-state and international students

Transfer Student Scholarships

- Available for students with 3.0+ GPA
- Helps make transition to ETSU affordable



Graduate Financial Support

Graduate Assistantships

- Teaching positions
- Research positions
- For full-time graduate students

Graduate Tuition Scholarships

- Merit-based awards
- Partial and full tuition waivers
- Based on academic performance

Additional Support

- College of Business and Technology
- ETSU Honors College
- Department of Computing

ETSU offers outstanding scholarship opportunities:

- **Honors In Discipline scholarships:** Full tuition waiver for qualifying recipients
- **STEM Community Outreach scholarships:** Waive out-of-state tuition for new out-of-state and international students
- **Transfer Student scholarships:** Available for students with college GPA of at least 3.0
- **Graduate Assistantships:** Teaching and Research positions available for full-time graduate students

State-of-the-Art Facilities & Resources

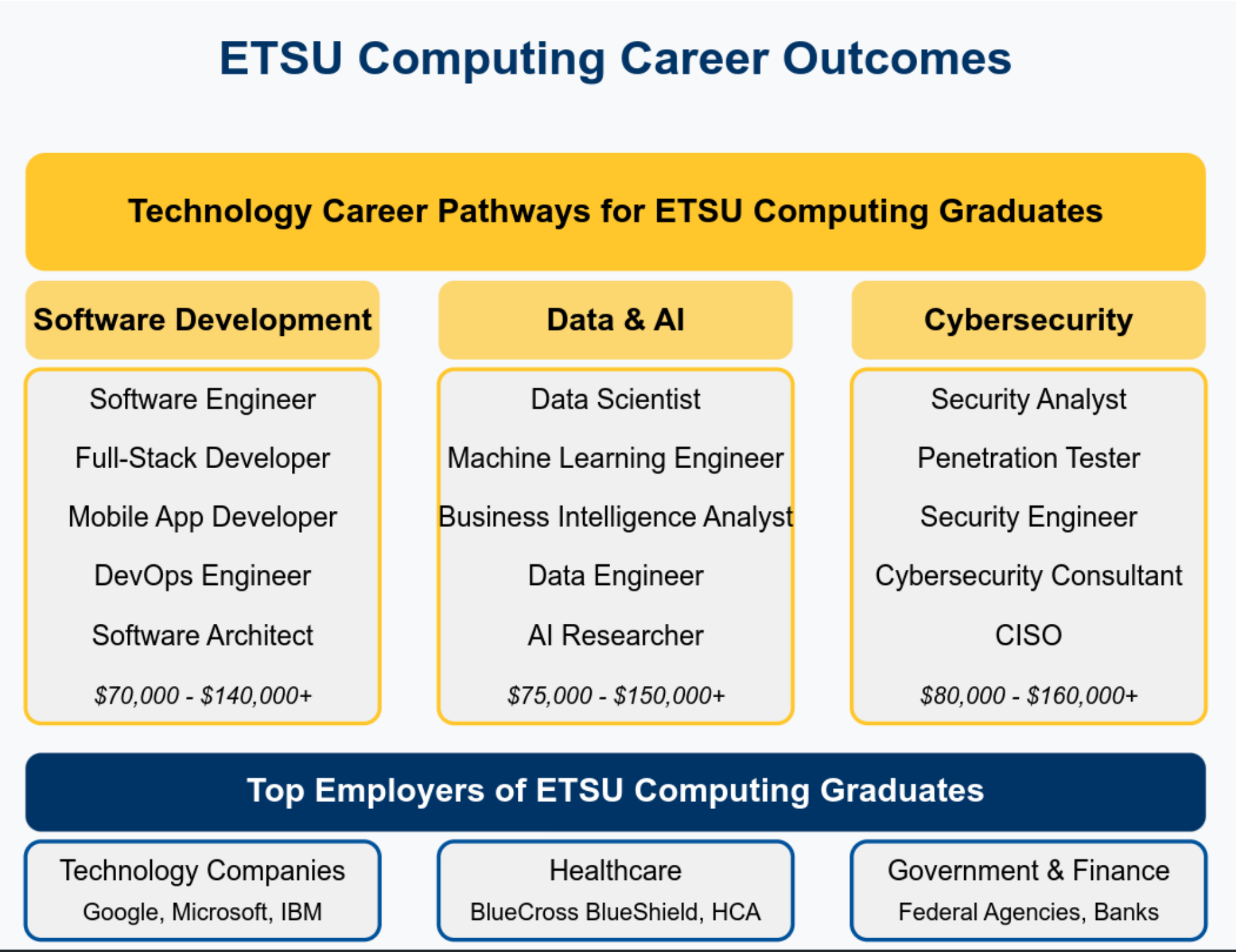
- **Five specialized teaching and research laboratories**
- **Professional software access** through Microsoft Azure Dev Tools and VMWare VMap

- **Flexible learning options** with evening courses and online/hybrid formats for working professionals

Vibrant Student Community

- **Association for Computing Machinery (ACM):** Guest speakers, competitions, and help sessions
- **ETSU Cybersecurity Club:** Participates in competitions like Cyberforce and CCDC
- **Women in Tech:** Provides resources, mentorship, and professional development

Career Outcomes: Where ETSU Graduates Excel



ETSU Computing graduates are prepared for high-demand careers such as:

- Data Scientist
- Machine Learning Engineer
- Cybersecurity Consultant
- Software Development Engineer
- Information Systems Manager
- User Experience Designer
- And many more technology leadership roles

Ready to Join ETSU Computing?

Whether you're a first-year student, transfer student, international student, or working professional seeking an advanced degree, ETSU Computing welcomes you to visit (in-person or virtually), ask questions, and discover why we're ranked #1 in Tennessee.

For more information about applying to programs, scholarships, or to arrange a visit, contact the department directly at 464 Nicks Hall or through our website.