



GRADUATE SCHOOL
VIRGINIA TECH.

VIRGINIA TECH GRADUATE SCHOOL
Inclusive, Individualized, Innovative Education

The Graduate School

Graduate students at Virginia Tech are an important and valued part of the academic community. We view graduate education as a partnership between outstanding graduate students and distinguished and internationally renowned faculty. Graduate students collaborate with faculty to continue our longstanding commitment to learning, discovery, and engagement.



Dean of the Graduate
School Aimée Surprenant

What makes us unique?

THE GRADUATE LIFE CENTER

The Graduate Life Center (GLC) is the heart of a progressive, inclusive graduate community and gathers administrative, academic, social, and residential functions all under one roof. The GLC offers housing, academic, and meeting spaces; programming and social activities; and Graduate School offices in an award-winning complex not found at any other institution. The GLC provides students opportunities to meet and collaborate with faculty and peers across disciplines, develop skills for academic and professional success, and maintain a healthy work-life balance.

TRANSFORMATIVE GRADUATE EDUCATION (TGE)

The Graduate School facilitates the Transformative Graduate Education (TGE) initiative developed by Vice President and Dean for Graduate Education Karen. P. DePauw. Through a mix of unique programs and opportunities, TGE pushes the boundaries of traditional disciplinary academic education, encouraging interdisciplinary research and collaboration across fields. All of our TGE programs, courses, workshops, and support services are rooted in the four pillars of knowledge, leadership, scholarly inquiry, and social responsibility. We aim to significantly change how graduate students prepare to become the next generation of scientists, educators, scholars, engineers, artists, and career professionals in an ever-evolving global context.

HOLISTIC ADMISSIONS

You are more than your grades, GRE score, or where you went to school. At Virginia Tech, we approach admission from an inclusive, rather than exclusive, perspective. Using a holistic admissions process, we look at many aspects of the student, including such things as work experience, community involvement and service, leadership, personal and professional ethics, research and scholarship, and the barriers you have dealt with while pursuing your goals.

Application and Admission

ADMISSION REQUIREMENTS

All applicants must have a baccalaureate degree or the equivalent of a U.S. four-year degree from a regionally accredited institution. All applicants must submit the following items:

- Completed application
- Official transcripts from all institutions where a bachelor's degree was received or graduate-level work was undertaken
- Non-refundable application fee

Other materials required by departments may include the following (check department websites for details):

- Letters of recommendation
- Statement of purpose
- Résumé or curriculum vitae
- Supplemental information
(*example of written work, essay questions, etc.*)
- An official report of test scores (*GRE, GMAT, etc.*)

INTERNATIONAL APPLICANTS

International applicants must demonstrate English language proficiency. Acceptable documentation includes TOEFL, IELTS, or proof that English was the language of instruction for earned degrees.

NON-DEGREE GRADUATE PROGRAMS AND CERTIFICATES

Individuals who hold a baccalaureate degree may apply for admission to one of our non-degree programs. Visit our graduate catalog to get a listing of programs and degree options.

Apply online at www.graduateschool.vt.edu

Graduate School by the numbers

2021 total enrollment:

6,846 students

Full-time 71%

Part-time 29%

Full-time students on assistantships 84%

Older than 30 33%

Doctoral 46%

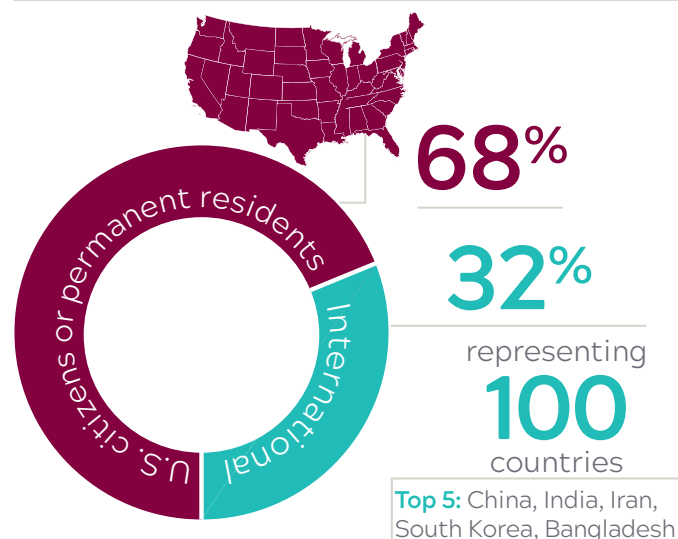
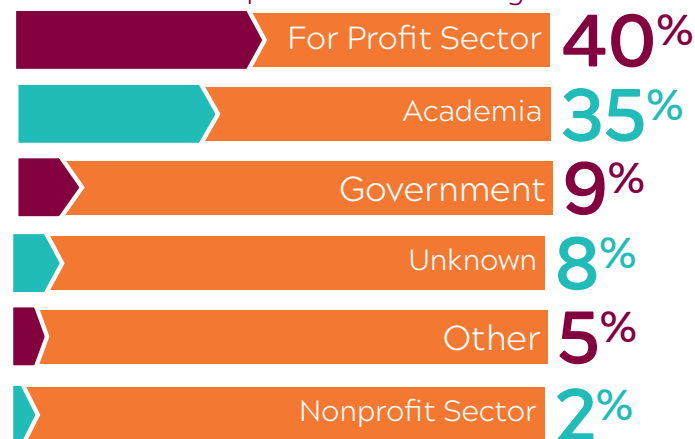
Master's 52%

Certificate/other 2%

Visit our Data and Reports website to learn more:

https://bit.ly/grad_numbers

Where students plan to work after graduation



201 students enrolled in interdisciplinary graduate education programs across colleges and campuses

The World is Our Campus



Ranked in the top

50

of research institutions

\$556M

research
portfolio

VIRGINIA TECH AT A GLANCE

From our founding in 1872 to today, university traditions are firmly rooted in our motto, Ut Prosim (That I May Serve) and in our land-grant missions of instruction, research, and solving the problems of society through public service and outreach activities.

The main campus is located in Blacksburg, Virginia, with extended campus locations spread across the Commonwealth of Virginia, and programs and centers located in Asia, Africa, Europe, and the Caribbean.

9

colleges and the
Graduate School

7

major
research institutes

75

graduate certificate
programs offered
university-wide

170

master's and
doctoral degree
programs

244,500

alumni living
in every state
and more than
100 countries

3,900

faculty members,
instructors, and
researchers

34,000+

students (about 6,500
graduate students)

Learn more about our national and global rankings: <https://vt.edu/about/rankings.html>

PROFESSIONAL DEVELOPMENT

We provide a range of events and activities to help our graduate students prepare, connect, succeed, and standout as they pursue their degrees and professional goals in highly competitive global markets. We partner with other university departments to offer scholarly and extracurricular activities based on the Transformative Graduate Education initiative. Recent program and seminar topics include:

- **Career Fair Preparation**
- **Interviewing Skills**
- **Professionalize Your Writing**
- **Networking**
- **Academic Job Searches**
- **Building a Strong LinkedIn Presence**
- **Communicating Your Research to Different Audiences**



An Inclusive, Diverse Community

The Graduate School is committed to supporting an inclusive, diverse community of students, faculty and administrators, one in which students thrive, not just survive, during their education journey.

Each month we host a series of free Connect Lunches, open to all students and designed to bring together graduate students, faculty, and staff who identify with the culture or social identity being celebrated.

For students looking to create dialogue and implement change for a more diverse and inclusive experience for the larger university community, we offer the Diversity Scholars program. Diversity Scholars specialize in and advocate for the awareness, knowledge, and skills associated with inclusion and diversity.

The Graduate School launched several programs to help students with families. These include the Little Hokie™ Hangout early education center to provide affordable, quality child care, and a parent support group.

Academic leaders of tomorrow

Many academic and business leaders and the public have challenged colleges and universities to embrace change to ensure the viability of the higher education enterprise, arguing that it is time to create new models and new methods of training for the future professoriate, who will become the faculty and academic leaders of tomorrow. The Graduate School has taken up this challenge with a number of programs, including the popular Preparing the Future Professoriate certificate program and an innovative and extensive Graduate Teaching Assistants (GTA) workshop series.

Center for Excellence in Teaching and Learning

The University's Center for Excellence in Teaching and Learning offers a range of options for GTAs and faculty to support the design, development and implementation of learner-centered instruction. The Center offers a wide range of online resources, including tips and best practices for both in-classroom and remote instruction, testing, and assessment. The Center also offers opportunities to build community and connections including book clubs, workshops, and certificate programs.



Future professoriate certificate

This graduate certificate aims to prepare our future faculty and academic leaders through exposure to concepts that break the mold of existing practices in higher education. Many leaders in the academic and business communities have challenged colleges and universities to embrace change to ensure the viability of the higher education enterprise. Rather than settle for the status quo and witness a probable decline in sustainability, most argue that it is time to create new models and new methods of training for the future professoriate, who will become the faculty and academic leaders of tomorrow.

Academy for Graduate Teaching Excellence (VT GrATE)

VT GrATE is a student-run peer-mentoring program for GTAs that creates and hosts teaching and learning events, provides a range of resources and support services, and fosters community. Academy fellows hold regular office hours for GTAs across the university and each semester members hold teach-ins to share best practices.

Research

Graduate Students are key members of the university's research community. The Graduate School supports a range of interdisciplinary graduate education programs to promote and sustain interdisciplinary graduate education and research. Colleges and departments across the university have developed additional interdisciplinary research programs based the Graduate School's model. More than 300 students participate in interdisciplinary programs and labs across the university and its campuses.

Virginia Tech also has seven globally known university-level research institutes: Fralin Life Sciences Institute; Institute for Creativity, Arts, and Technology; Institute for Critical Technology and Applied Science; Institute for Society, Culture, and Environment; Fralin Biomedical Research Institute at VTC; Virginia Tech National Security Institute; and Virginia Tech Transportation Institute.

You'll find College, department, and program focused labs and research centers across the university's campuses where graduate research assistants are making key contributions to vital work and are co-authors on articles published in major journals.

In addition to these programs, the university has developed several other interdisciplinary programs for graduate students that span its colleges and campuses.



Interdisciplinary Graduate Education Programs supported by the Graduate School:

- Alliance For Social, Political, Ethical, and Cultural Thought

- BioBuild

- Biological Transport

- Computational Tissue Engineering

- Disaster Resilience

- Genetics, Bioinformatics, and

Computational Biology

- Geospatial and Environmental Analysis

- Human-centered Design

- Infectious Disease

- Interfaces of Global Change

- Macromolecules

- Molecular and Cellular Biology

- Neuroscience

- Regenerative Medicine

- Remote Sensing

- Science and Technology Studies

- Science, Technology, and Engineering in Policy

- Sustainable Nanotechnology

- Translational Biology, Medicine, and Health

- Translational Obesity Research

- Translational Plant Science

- Urban Computing

- WaterINTERFACE

COMMUNICATING SCIENCE

Recognizing that higher education typically does not provide opportunities for scholars to communicate their work effectively outside their fields, or to the general public, Graduate School leaders launched Communicating Science, a two-credit course offered in both spring and fall semesters. Interest in and demand for the course led to the Center for Communicating Science at Virginia Tech, which creates and supports opportunities for scientists, scholars, health professionals, and others to develop their abilities to communicate and connect.

IPHD

In addition to the interdisciplinary programs, the Graduate School manages the individualized interdisciplinary Ph.D. (IPHD) program.

Students design and develop one-of-a-kind doctoral research that spans more than one field, and must show how their work will not fit into a single field.

Academic Programs

THE GRADUATE SCHOOL

■ Doctoral
 ■ Education
 ■ Master's
 ■ Certificate
 ■ Accelerated
B Blacksburg
H Hampton Roads
S Southwest Virginia
V Virtual
R Roanoke
W Greater Washington D.C. area
Ri Richmond

Aerospace Engineering B,V	■	■	■
Africana Studies B	■	■	
Agriculture and Applied Economics B	■	■	■
Agriculture, Leadership, and Community Education B,V	■	■	
Agriculture and Life Sciences V	■	■	■
Alliance for Social, Political, Ethical, and Cultural Thought B	■		
Animal and Poultry Sciences B	■	■	■
Applied Economic Analytics	■	■	
Architecture B,W	■	■	
Architecture and Design Research (Options: Architecture, Design Research, Landscape Architecture, Urban Design) B,W	■		
Arts Leadership B	■	■	
Bio-based Materials B	■	■	
Bio-Inspired Buildings* B	■		
Biochemistry B	■	■	■
Biological Sciences B	■	■	■
Biological Systems Engineering B	■	■	■
Biological Transport* B	■		
Biomedical and Veterinary Sciences B	■	■	■
Biomedical Engineering B,R	■	■	■
Biomedical Technology Development and Management W	■		
Building/Construction Science and Management B	■	■	■
Business, Accounting and Information Systems B	■	■	
Business Administration (Evening, Executive, Professional) B,Ri,R,W	■	■	■
Business Analytics and Data Mining V	■	■	
Business, Entrepreneurship in Hospitality and Tourism Management W	■		
Business, Executive Business Research B	■	■	
Business, Finance B	■	■	
Business, Health Information Technology V	■	■	
Business, Hospitality and Tourism Analytics and Revenue Management V	■	■	
Business, Hospitality and Tourism Management B,W	■	■	■
Business, Information Security and Analytics	■	■	
Business, Information Technology B	■		
Business, Information Technology Management	■	■	
Business, International Hospitality and Tourism Strategy	■		
Business, Management B	■		
Business, Marketing B	■	■	■
Chemical Engineering B	■	■	
Chemistry B	■	■	
Civil Engineering (Options: Civil Infrastructure, Construction Engineering and Management, Environmental and Water Resources, Geospatial Engineering, Geotechnical, Structural Engineering and Materials, Transportation Infrastructure and Systems Engineering) B,W	■	■	■
Collaborative Community Leadership B	■	■	
Communication B	■	■	
Computational Tissue Engineering* B	■		
Computer Engineering B,H,R,Ri,S,V,W	■	■	■
Computer Science and Applications B,W	■	■	■
Construction Engineering for Infrastructure Projects	■	■	
Creative Technologies B	■	■	
Creative Writing B	■	■	
Crop and Soil Environmental Sciences B	■	■	
Cybersecurity Engineering	■	■	
Dairy Science B	■	■	
Data Analysis and Applied Statistics B,W	■	■	
Data Analytics V	■	■	
Disaster Resilience* B	■		
Economic Development B,V	■	■	
Economic Risk and Global Inequality W	■	■	
Economics B	■	■	■
Education, Career and Technical B,H,R,S,W	■	■	■
Education, Career and Technical (Teaching licensure) B	■	■	■

*Interdisciplinary Graduate Education Program

Academic Programs

(CONTINUED)

■ Doctoral
 ■ Education
 ■ Master's
 ■ Certificate
 ■ Accelerated
B Blacksburg
H Hampton Roads
S Southwest Virginia
R Roanoke
V Virtual
Ri Richmond
W Greater Washington D.C. area

Education, Cognition Education B					
Education, Counselor Education B,R					
Education, Curriculum and Instruction B					
Education, Curriculum and Instruction (Options: Elementary Education, English, English as a Second Language, Foundations, History and Social Science, Mathematics, Music, Science, Special Education, Technology) B					
Education, Curriculum and Instruction (Options: Educational Psychology, Instructional Design and Technology, Integrative STEM Education) B					
Education, Curriculum and Instruction, Instructional Technology Master of Arts V					
Education, Curriculum and Instruction (Options: Reading Specialist, Math Specialist) B,R,S					
Education, Educational Leadership and Policy Studies (Educational Leadership Option) B,H,R,Ri,S,W					
Education, Educational Leadership and Policy Studies (Higher Education option) B					
Education, Learning Sciences B					
Educational Research B					
Electrical Engineering B,H,R,Ri,S,V,W					
Emerging Devices Technologies B					
Engineering Education B,H,R,Ri,S,W					
Engineering Mechanics B					
English B					
Entomology B,V					
Environmental Design and Planning B					
Environmental Engineering B,W					
Environmental Politics and Policy B,V					
Environmental Sciences and Engineering B,W					
Europe and Transatlantic Relations					
Fisheries and Wildlife Conservation B					
Food Science and Technology B,V					

Foreign Languages, Cultures, and Literatures (Options: French/Franophone Studies, Multi-language Studies, Hispanic Studies) B,V					
Forest Products B					
Forestry B					
Foundations of Political Analysis B					
Future Professoriate B					
Genetics, Bioinformatics, and Computational Biology* B					
Geography B					
Geosciences B					
Geospatial and Environmental Analysis B					
Geospatial Information Technology B					
Gerontology B					
Global Planning and International Development Studies B,W					
Global Sustainability B					
Government and International Affairs B,W					
Higher Education B					
Higher Education Administration B					
History B					
Homeland Security Policy B,W					
Horticulture B					
Human-Centered Design* B					
Human Development (Options: Adult Development and Aging, Child and Adolescent Development, Family Studies) B, W					
Human Development (Options: Adult Learning, Human Resource Development) W					
Human Factors of Transportation Safety B					
Human Nutrition, Foods and Exercise (Options: Basic, Clinical, Behavioral) B					
Human Nutrition (Option: Muscle Physiology and Biochemistry) B					
Human Sexuality Studies B					
Human System Integration B,H,R,Ri,S,W					
Inclusion and Diversity B,V,W					

*Interdisciplinary Graduate Education Program

Individual Interdisciplinary B				
Industrial and Systems Engineering (Options: General Industrial, Human Factors, Management Systems, Manufacturing, and Operations Research) B,H,R,Ri,S,W				
Infectious Disease* B				
Information Policy and Society B,W				
Information Security and Analytics V				
Information Technology V				
Integrated STEM B				
Interdisciplinary Water and Health Science B				
Interfaces of Global Change* B				
International Research Abroad B,W				
Landscape Architecture B				
Local Government Management B,W				
Macromolecular Science and Engineering B				
Material Culture and Public Humanities B				
Materials Science and Engineering B				
Mathematics B				
Mechanical Engineering B,H,W				
Mechanical Engineering Professoriate				
Metropolitan Studies B,W				
Middle East Politics and Society W				
Mining Engineering B				
Molecular and Cellular Biology* B				
Multidisciplinary Research in International Development B				
Natural Resources V,W				
Naval Engineering B,V				
Neuroscience B				
Nonprofit and Nongovernmental Organization Management B,W				
Nuclear Engineering B,V,W				
Nuclear Science, Technology, and Policy W				
Ocean Engineering B,V				
Organizational Communication Management				
Philosophy B				
Physics B				
Planning, Governance, and Globalization B,W				
Plant Pathology, Physiology, and Weed Science B				
Political Science B,V				

Politics and Policy Studies of Science and Technology B,W				
Problem Solving for Leading Change B				
Psychology B				
Public Administration B,R,W				
Public Administration and Public Affairs B,W				
Public Health B				
Public History B				
Public and Nonprofit Financial Management B				
Race and Social Policy B,W				
Regenerative Medicine* B				
Religion and the Public Sphere				
Religious Studies B				
Remote Sensing* B				
Research in Translational Medicine B				
Rhetoric and Writing B				
Science and Technology Studies B,W				
Security Studies B,V				
Sociology B				
Software Development V				
Statistics B				
Sustainable Nanotechnology* B				
Technology Management				
Theatre Arts B				
Translational Biology, Medicine, and Health R				
Translational Obesity Research* B				
Translational Plant Science* B				
Urban and Regional Planning B,H,R,Ri,V,W				
Urban Computing B,W				
Water INTERface* B				
Watershed Management B				
Women's and Gender Studies B				

*Interdisciplinary Graduate Education Program



GRADUATE SCHOOL
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Contact the Graduate School

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Blacksburg Campus

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540-231-6691

Roanoke

www.vtrc.vt.edu
540-767-6100

Richmond

www.richmond.vt.edu
804-662-7288

Greater Washington D.C. Area

www.dcare.vt.edu
703-538-8327

Hampton Roads

www.hrc.vt.edu
757-363-3930

Southwest Virginia

www.swcenter.edu
276-619-4311

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