

## Virginia Tech



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### **ABOUT VIRGINIA TECH**

Virginia Polytechnic Institute and State University is a public land-grant university serving the Commonwealth of Virginia, the nation, and the world community. Founded in 1872 as a land-grant college named Virginia Agricultural and Mechanical College, Virginia Tech is now a comprehensive, innovative research university with the largest number of degree offerings in Virginia, more than 100 campus buildings, a 2,600-acre main campus with a 1,700-acre agriculture research farm nearby, off-campus educational facilities in six regions of Virginia, and study-abroad sites in Switzerland, the Dominican Republic, India, and Egypt. The campus proper is located in Blacksburg, 38 miles southwest of Roanoke, in the New River Valley. The discovery and dissemination of new knowledge are central to its mission. Through a combination of its three missions of teaching and learning, research and discovery, and outreach and engagement, Virginia Tech continually strives to accomplish the charge of its motto: *Ut Prosim* (That I May Serve).

### **RANKING / SUPERLATIVES**

- *U.S. News & World Report's "America's Best Colleges 2011"*:
  - Virginia Tech ranked 27<sup>th</sup> among national public universities and 69<sup>th</sup> among all national universities
  - The College of Engineering undergraduate program was ranked 13<sup>th</sup> in the nation among all accredited engineering schools that offer doctorates and 7<sup>th</sup> among engineering schools at public universities
  - Nine Virginia Tech undergraduate engineering specialties (including, aerospace; civil; electrical and computer; environmental; industrial systems; biological systems; and mechanical engineering; and engineering science and mechanics) ranked among the top 20 of their respective peer programs
  - The Virginia Tech College of Engineering enrolls more than 5,600 undergraduate students and about 1,800 graduate students, ranking 14<sup>th</sup> and 27<sup>th</sup> in the nation, respectively. The College ranks 6<sup>th</sup> for undergraduate and 14<sup>th</sup> for doctoral degrees awarded and produces more



undergraduate degrees in mechanical engineering than any other university in the country

- The Pamplin College of Business undergraduate program is ranked 42nd among the nation's undergraduate business programs and 10<sup>th</sup> among public institutions. Pamplin's overall ranking places it in the top 10 percent of the approximately 524 U.S. undergraduate programs accredited by the Association to Advance Collegiate Schools of Business International
- Virginia Tech was also recognized as having one of the top 14 cooperative education and internship programs in the nation
- Virginia Tech ranked 8<sup>th</sup> nationally for public universities in Princeton Review's "Best Value Colleges" for 2010. Virginia Tech also ranked 16<sup>th</sup> among Kiplinger's 100 Best Values in Public Colleges for its combination of top-flight academics and affordable costs
- The architecture and landscape architecture programs in Virginia Tech's College of Architecture and Urban Studies are ranked among the very best in America. In its 2008 report, *DesignIntelligence*, the only national college ranking survey focused exclusively on design, ranked the undergraduate architecture program 1<sup>st</sup> nationally (tied with Harvard, Yale, & Columbia Universities) and first among public universities.

### Graduate

- "U.S. News and World Report's America's Best Graduate Schools 2011"
  - The College of Engineering's graduate program ranked 25<sup>th</sup> nationally, with four individual programs in the top 10.
  - The career and technical education program in the College of Liberal Arts and Human Sciences' School of Education ranked 4<sup>th</sup> in the nation
- In the *Financial Times* rankings of the world's top 100 graduate business schools, Pamplin's M.B.A. program was 63<sup>rd</sup> overall and 43<sup>rd</sup> among U.S. universities. The program ranked 2<sup>nd</sup> among U.S. schools in the "aims achieved by M.B.A. alumni" category and 6<sup>th</sup> in "value for money"
- *DesignIntelligence* ranked Tech's graduate architecture program 6<sup>th</sup> in the nation and its graduate interior design program sixth.

### **RESEARCH**

- In fiscal year 2008, Virginia Tech reported total research and development expenditures of more than \$373.3 million.
- In fiscal year 2009, the university received 2,384 awards to conduct research.
- Last year, Virginia Tech ranked 46<sup>th</sup> in the nation in NSF research expenditures.
- Tech has **more than 100 centers and institutes**, including university and college-based interdisciplinary programs and laboratories, for addressing complex, multifaceted research problems.
- Three university-level institutes have been created to focus and facilitate advances in scholarship: the Institute for Critical



Technology and Applied Science, the Institute for Biomedical and Public Health Systems, and the Institute for Society, Culture, and Environment.

- **Areas of achievement and on-going attention** include computational science and engineering, advanced materials, wireless telecommunication, transportation, housing, geographic information systems, human and animal health, the environment, and energy – including power electronics, biofuels, fuel cells, and solar-powered building structures.
- The **Macromolecules and Interfaces Institute** ([www.MII.vt.edu](http://www.MII.vt.edu)) encompasses the multidisciplinary materials research and education enterprise. The highly productive and successful polymer science and engineering collaboration, which was begun in 1978, has been awarded over \$17 million in the past three years, including a fuel cell materials program funded by federal (National Science Foundation, Department of Energy, Office of Naval Research, and NASA) and industry sources.
- The **Virginia Tech Transportation Institute (VTTI)** is Virginia Tech's largest university-level research center. Its cutting-edge research is effecting significant change in public policies in the transportation domain on both the state and national levels. VTTI employs an elite team of multi-disciplinary researchers, engineers, technicians, support staff, and students to conduct applied research to develop new techniques and technologies to study transportation challenges from various perspectives: vehicle, driver, infrastructure, and environment. The Institute has at its disposal a wide-range of tools to explore transportation problems including facilities such as the Virginia Smart Road and VTTI's internally-developed Data Acquisition System (DAS). These capabilities have earned VTTI a unique standing in the transportation research field and have made the Institute a "one-stop-shop" for transportation research, evaluation, analysis and development.
- Established in 2000 as a Commonwealth of Virginia shared resource, the **Virginia Bioinformatics Institute (VBI)** at Virginia Tech has undertaken research centered on understanding the "disease triangle" of host-pathogen-environment interactions. VBI researchers are working to cure many human, crop, and animal diseases; create high-yield, insect- and disease-resistant crops; and provide bioinformatics information and tools to support further discoveries. In October 2009, the VBI landed a \$27 million, 5-year contract from the National Institutes to support infectious disease research. The contract is the largest one-time federal award in the history of Virginia Tech. The funding will be used by the [Cyber Infrastructure Group](#) (CIG) to support infectious disease research across the globe, namely to integrate vital information on pathogens, provide key resources and tools to scientists, and help researchers to analyze genomic, proteomic and other data arising from infectious disease research.
- The university upgraded the **Virginia Tech Advanced Research Computing (VTARC)** facility and added SGI capacity in 2005 and 2006, enhancing visualization capacity



and moving toward petascale computing. While such facilities are tools for researchers across the university, Virginia Tech is establishing leadership in computational life sciences, computational nanoscience and engineering, and multidisciplinary design optimization. Connecting the VTARC via the National Lambda Rail (a national fiber-optic backbone with more than 15,000 miles of fiber footprint linking research universities and laboratories with supercomputing, storage, and visualization capabilities) will establish Virginia Tech as a leader in high-performance grid computing.

- **Virginia Tech Intellectual Properties (VTIP)** was established as a nonprofit corporation in 1985 to support the research mission of the university by protecting and licensing intellectual properties that result from research performed by Virginia Tech faculty members, staff, and student. 492 technologies are available for licensing from VTIP.
- The new **Virginia Tech-Carilion medical school** will be a jointly operated, private school that is located in downtown Roanoke, Va., adjacent to Carilion Roanoke Memorial Hospital. Construction on the medical school and research building began in early 2008, with the school welcoming its inaugural class in 2010, and the key academic infrastructure in place. The new school will have a small class size of an estimated 40 students per year and its tuition will be comparable to that of other private medical schools. Because fewer than 2 percent of active physicians today are pursuing careers involving research, the new school will be dedicated to training physician researchers.
- A **major Virginia Tech research center in the Ballston area of Arlington** is under development, with planned occupancy by late 2010. This state-of-the-art facility will further the university's mission to expand its research portfolio in a region that offers great opportunity for partnerships with corporate research entities and close proximity to government agencies and other public and private-sector organizations. The seven-floor, 144,000-square-foot building will include computational laboratories, offices, and conference space to accommodate executive programs, training programs, and workshops.

The U.S. Agency for International Development (USAID) will continue its partnership with Virginia Tech, recently announcing the extension of two 5-year grants totaling \$30 million. Through The Office of International Research, Education, and Development, the work will enhance food and livelihood security globally while limiting negative effects on natural resources through prudent environmental stewardship and conservation agriculture. The next phase of the program will test the ability of conservation agriculture systems to increase food production on small-scale farms and improve soil quality to promote carbon sequestration, reduce erosion, and mitigate risks associated with climate change through improved water management and productivity. For a listing of centers, institutes, labs, and groups doing research at Virginia Tech, please visit <http://www.research.vt.edu/resmag/crossing/>

## AREA

- *Outside Magazine* ranked Blacksburg a top ten “dream town” for outdoors enthusiasts because of its proximity to the Appalachian Trail and the Washington-Jefferson National Forest
- Virginia’s largest town, Blacksburg has been ranked among the nation’s best places to live by *Blue Ridge Country Magazine*, *Men’s Journal*, *50 Best Small Southern Towns*, *The Sporting News*, and *Retirement Places Rated*
- In 2005, Blacksburg was named by *Expansion Management* magazine’s “Knowledge Worker Quotient” as a Top Metro for Ph.D.s per Capita (following only Ithaca, N.Y.); Best Educated Technical Work Force; and Five-Star Knowledge Worker Metro
- Montgomery County was first in the U.S. to directly connect every K-12 school to the Internet. Today, every classroom in every Montgomery County school has direct, high-speed access

**FULLTIME ENROLLMENT:** (2010-2011): 30,870

### **IN-STATE TUITION AND FEES (2010-2011):**

Undergraduate: \$4,729; Graduate: \$5,466

### **OUT OF STATE TUITION AND FEES (2010-2011):**

Undergraduate: \$11,608; Graduate: \$9,978

### **AFFILIATED SCHOOLS, COLLEGES, GRADUATE SCHOOLS**

College of Agriculture & Life Sciences

College of Architecture & Urban Studies

College of Engineering

College of Liberal Arts & Human Sciences

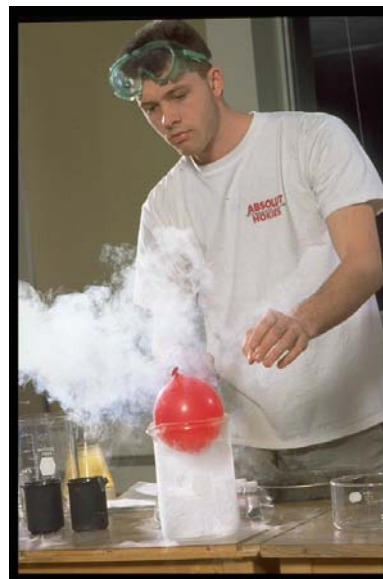
College of Natural Resources

College of Science

Graduate School

Pamplin College of Business

Virginia Maryland Regional College of Veterinary Medicine



### **SATELLITE CAMPUSES:**

National Capital Region

Richmond

Roanoke

Southwest Virginia

### **NUMBER OF DEGREES CONFERRED (2009-2010):**

Bachelor’s: 5,755

Master’s: 1,548

Ph.D.’s: 403

DVMs: 86

**SELECTED DEGREES OFFERED:**

<b>Selected Engineering Degrees</b>	<b>Bachelor's</b>	<b>Master's</b>	<b>Ph.D.</b>
Aerospace Engineering	x	x	x
Biological Systems Engineering	x	x	x
Biomedical Engineering		x	x
Chemical Engineering	x	x	x
Civil Engineering	x	x	x
Computer Engineering	x	x	x
Electrical Engineering	x	x	x
Engineering (Science &) Mechanics	x	x	x
Environmental Science	x	x	
Industrial & Systems Engineering	x	x	x
Macromolecular Science & Engineering		x	x
Materials Science & Engineering	x	x	x
Mechanical Engineering	x	x	x
Mining & Minerals Engineering	x	x	x
Ocean Engineering	x	x	
Systems Engineering		x	

<b>Selected Sciences and Related Degrees</b>	<b>Bachelors</b>	<b>Masters</b>	<b>PhD</b>
Animal & Poultry Science	x	x	x
Animal & Dairy Science			x
Biochemistry	x	x	x
Biological Sciences	x	x	x
Genetics, Bioinformatics & Comput. Biology			x
Chemistry	x	x	x
Computer Science	x	x	
Dairy Science	x	x	
Crop & Soil Environmental Sciences	x	x	x
Fisheries & Wildlife Sciences	x	x	x
Food Science & Technology	x	x	
Forest Products	x	x	x
Forestry	x	x	x
Life Sciences		x	x
Natural Resources		x	
Physics	x	x	x

<b>Selected Business Degrees</b>	<b>Bachelors</b>	<b>Masters</b>	<b>PhD</b>
Accounting & Information Systems	x	x	x
Business Administration		x	
Business Information Technology	x	x	x
Economics, Arts & Science	x	x	x
Economics in Agricultural & Life Sciences		x	x
Finance	x	x	x
Hospitality & Tourism Management	x	x	x
Management	x	x	x
Marketing	x	x	x
Statistics	x	x	x