

Virginia Tech-Carilion School of Medicine and Research Institute

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President,
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Objectives

- Improve the region's healthcare
- Create economic growth
- Enhance Virginia Tech's research contributions in biomedical and life sciences.
 - Life science research accounted for 52% of \$367 Million in research expenditures in 2006-07

Structure

- Two components
 - Education
 - Private school
 - Set up as a separate 501(c)(3)
 - Will grant degrees

 - Research
 - An institute within Virginia Tech
 - Builds on and enhances Virginia Tech's biomedical and life science initiatives such as the Virginia Bioinformatics Institute and the School of Biomedical Engineering.

Medical School

- Dean has been selected
 - Most recently senior associate vice chancellor for clinical and translational research at East Carolina University
 - Formerly was dean of the school
 - Stanford undergraduate, MD from UCLA School of Medicine



Cynda Ann Johnson

Education

- Accreditation is needed by the Liaison Committee on Medical Education (LCME), an affiliate organization of the AMA
- Submission of self-study -- June, 2008
- If preliminarily accredited in winter of 08-09, first class will enroll in August, 2010

Curriculum

- 40 students per class
- The School of Medicine will offer the M.D. Degree with a special focus on research and scholarship to train physicians in research principles and practice. A five-year program to accommodate the research component is being evaluated.
- Students will have an opportunity to use credits earned through the research experiences toward pursuit of an M.S. degree from Virginia Tech.
- Patterned after Harvard Medical School's Health Sciences and Technology Program and Cleveland Clinic's Lerner School of Medicine
- Problem-based learning, focusing on integrated systems approach

Research

- Goal is \$30+ million/year in research in 5-7 years
- Approximately 40 proven research teams will be formed, each having the potential for \$500k-\$750k per year in sponsored expenditures
- An acting director, separate from the dean, will be appointed soon to run the institute

Facility

- A \$59 million building is included in the Governor's GOB package and House Bill 1547 as a public-private partnership.
- 150,000 square feet
 - 100,000 for research institute
 - 50,000 for medical school.
- Located in Roanoke on the Carilion Clinic campus and adjacent to Roanoke Memorial Hospital



Economic Benefits

- Every dollar spent on a medical school or teaching hospital creates an additional \$1.30 in economic activity.*
- Over \$14 billion in in-state tax revenue was generated last year by U.S. medical schools , although most are not-for-profit and tax exempt.*

* Source: The Association of American Medical Colleges

Carilion Clinic

- Headquartered in City of Roanoke
- Western Virginia's largest private employer with 11,400 employees
- Eight not-for-profit hospitals, with core in the Roanoke and New River Valley region
- Service area population of almost one million citizens
- Over 425 physicians representing 35 specialties at 78 practice sites
- Over 900,000 primary care visits in 2007
- Western Virginia's only Level I Trauma Center
- Leader in healthcare technology

Carilion's proven history in medical education

- Carilion has been involved in medical education for over sixty years
- Clinic currently provides primary clinical training for one-third of UVA third-year medical students
- Also provides primary clinical training for one-fourth of the Virginia College of Osteopathic Medicine third year students
- Currently nine residency programs and two fellowship programs
- Employs over 230 physician faculty members

Medical Education

- Over 170 Family Practice Residency grads have stayed in Virginia
- Nursing education and other allied health professions through Carilion's Jefferson College of Health Sciences
 - Private college accredited by SACS and Commonwealth of Virginia
 - Over 1,000 students and 180 faculty (F/T, P/T, Adjunct)
 - Currently 5 Associate, 6 Bachelors, and 4 Masters degree programs
 - Doctoral- level program with Case Western Univ.- 20 students currently enrolled

Other Key Facts

- Need for additional physicians is clear
 - AAMC (Assn of American Medical Colleges) recommending 5,000 new M.D. students annually by 2015, an increase of 30 percent
 - Accomplish by creating new medical schools as well as boosting enrollments at existing schools
 - Governor Kaine's Health Reform Commission suggests that Virginia needs an additional 1,500 physicians by 2020

Key elements of Virginia Tech-Carilion Medical School and Research Institute

- Unique public-private partnership
- \$70 million in private funds committed as start-up operational funding (with \$35 million from Carilion)
- Capital funding request for building: \$59 million
- “Hold harmless” commitment to State for any construction cost overruns
- Ready-to-go project that would build on the region’s economic engines of higher education, research and healthcare and provide tremendous economic boost
- Region’s economy lagging rest of the state:
.4% compounded annual growth rate
- Med school operating budget builds on existing infrastructure and programs