Virginia Tech-Carilion School of Medicine and Research Institute

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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
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