



House Appropriations Committee 2008 Session Budget Amendment Form

*** The deadline to submit completed forms is 5:00 p.m. THURSDAY, JANUARY 17, 2008 ***

Patron: _____
(Print name of Delegate) (Signature of Delegate)

Requests can be made by completing this form and submitting it to the House Appropriations Committee staff office on the 9th floor of the GAB.

Agency Name: Virginia Polytechnic Institute and State University

Please circle the House Bill that your budget amendment request relates to: **HB29** (or) **HB30**

Increase/Decrease

Use this section to indicate whether your amendment would require an Increase or Decrease in appropriated funds.

General Fund (GF) monies are derived from taxes levied on individual and corporate income, sales, public service corporations, and insurance companies. The General Fund is the major source of support for many State functions.

Nongeneral Fund (NGF) monies consist of special fund revenues, higher education operating monies (tuition, special revenues and federal grants), highway maintenance and construction funds, trust and agency funds, and federal trust funds.

<u>Funding</u>	<u>First Year</u>	<u>Second Year</u>
<input checked="" type="checkbox"/> Increase	GF \$ <u>45,250,000</u>	GF \$ _____
<input type="checkbox"/> Decrease	NGF \$ <u>35,000,000</u>	NGF \$ _____

Employment Level

Use this section to indicate if a change in the employment level of the agency is desired or necessary. The employment level is the number of full-time equivalent (FTE) positions dedicated to a specific program activity or agency. If you are unsure, leave the space blank.

<u>Employment Level</u>	<u>First Year</u>	<u>Second Year</u>
<input type="checkbox"/> Increase	GF FTE _____	GF FTE _____
<input type="checkbox"/> Decrease	NGF FTE _____	NGF FTE _____

Explanation of Amendment

Please explain the purpose of your amendment or attach explanatory materials. THIS IS THE MOST IMPORTANT PART OF REQUESTING AN AMENDMENT as it ensures the staff has adequate background information to draft your budget amendment request.

EXPLANATION OF AMENDMENT: (Explain or Attach Materials)

This proposal is for a state-of-the-art academic facility focused on undergraduates with highly specialized laboratories that will support hands-on problem solving and active-learning in the engineering disciplines. The building is envisioned as a 160,000 gross square foot facility with be a combination of classrooms, instructional laboratories, and research laboratories to house a number of departments and programs in the college. Without this project, the College of Engineering cannot continue to deliver the instructional program offered at other top-tier engineering colleges and expected by today's students. The estimated total budget is \$80.25 million, including \$45.250 million of General Fund.

Please return this signed, original form (and the co-patron signature sheet if applicable) to the House Appropriations Committee Staff, 9th Floor, General Assembly Building -- Telephone: (804) 698-1590, FAX: (804) 698-1802
 This form can also be found on the House Appropriations Committee's website: <http://hac.state.va.us>

***** PLEASE KEEP A COPY OF THE COMPLETED FORM & SUPPORTING DOCUMENTATION FOR YOUR RECORDS *****

**VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
(Agency 208)**

**Capital Expenses
Budget Amendment Proposal**

	<u>2008-2009</u>	<u>2009-2010</u>	<u>Biennium</u>
Additional Funds Requested:			
General Fund	\$45,250,000	\$0	\$45,250,000
Nongeneral Fund	\$35,000,000	\$0	\$35,000,000

Title: Signature Engineering Building

Justification Statement:

Virginia Tech's College of Engineering is a comprehensive instruction and research program, including 13 departments with approximately 330 faculty, 5,500 undergraduate majors, and almost 2,000 graduate students. "America's Best Colleges 2007" survey released by *U.S. News & World Report* in August 2007 ranked the Virginia Tech College of Engineering's undergraduate program 14th in the nation among all accredited engineering schools that offer doctorates, and eighth among those at public universities. Seven of the College's undergraduate engineering programs were ranked among the top 25 in the nation.

The College of Engineering has recently updated its strategic facilities plan with a proposed series of actions - new construction, renovations, and demolitions - that would serve to transform the college's old and increasingly obsolete space into modern facilities that will support the college's cutting-edge and expanding programs. This project is positioned as an initial phase in this multi-biennia program to respond to the College's space needs.

This is a new project on the University's plan, and is included as a priority item in the first biennium to address severely deteriorated undergraduate academic space for the College of Engineering. The proposed 160,000 gross square foot facility will be a combination of classrooms, instructional laboratories, research laboratories, and offices to house a number of departments and programs in the college. This will be a state-of-the-art academic facility focused on undergraduates with highly specialized laboratories that will support hands-on problem solving and active-learning in the engineering disciplines. Without this project, the College of Engineering cannot continue to deliver the instructional program offered at other top-tier engineering colleges and expected by today's students.

The project scope of 160,000 gross square feet (104,000 assignable square feet-ASF) is based on peer comparisons of space, the College of Engineering's academic strategic plan, and an innovative space use concept that minimizes the amount of new construction needed to be competitive with peers. The College currently operates at about 330 tenure and tenure-track faculty members with approximately 1,800 ASF per faculty member. This will grow to 2,200 ASF after the completion of two engineering-heavy projects that are underway. The College's peers operate with about 3,500 ASF per faculty member. To be on par with space at the rate of its peers, the Virginia Tech College of Engineering would require about 429,000 additional ASF. By optimizing the use of existing space through realignments of department locations (aided by future renovations), the College has a space plan to be competitive at a lower rate of space than its peers – about 2,600 ASF per faculty member – for an incremental space need of about 132,000 ASF. Thus, the innovative plan requires incremental space in a manner much more efficient than the incremental 429,000 ASF amount needed based on peer rates. This proposed

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project will address the majority of the incremental space required in the college's plan, based on the college's current configuration of faculty and students and in conjunction with other elements of the University six-year plan.

Randolph Hall is the current home of much of the college's undergraduate academic service with several departments, including Aerospace and Ocean Engineering, Chemical Engineering, Engineering Education, and Mechanical Engineering. Randolph Hall is a 165,000 gross square foot building constructed in 1952. The building is seriously deteriorated, outdated, and does not meet the expectations of students. The building's structural constraints (floor-ceiling heights and support widths) and environmental control systems constrain modifying the building to adequately accommodate modern instructional practices and research instruments. The departments in Randolph Hall will largely be relocated to the proposed new undergraduate engineering building, and the relocation will permit Randolph Hall to undergo future renovations for other instructional uses.

The mission statement of Virginia Tech as a public land-grant university serving the Commonwealth of Virginia, the nation, and the world community includes discovery and dissemination of new knowledge. The Virginia Tech College of Engineering is one of the Nation's top-five suppliers of new bachelor's degree engineers. The College supplies as many new engineers as all other Virginia engineering colleges, combined. This supply of young men and women with high-tech skills is critically important to the future economic health of the Commonwealth of Virginia. To continue to support the high quality and wide array of undergraduate engineering programs at Virginia Tech, the College of Engineering needs this new undergraduate engineering building to remain competitive with the engineering educational facilities that already exist at peer institutions. At a time when there is urgent need for new graduates to enter the engineering workforce in the Commonwealth of Virginia, it is imperative that Virginia Tech – the State's senior Land Grant Institution and key supplier of engineers – improve the quality of its engineering educational facilities and thereby maintain its ability to attract and train future generations of engineers that live and work in Virginia.

As a measure of the strong commitment that the University and the Virginia Tech engineering alumni have for the establishment of a new, state-of-the art undergraduate engineering facility, an aggressive campaign to raise \$35 million for the nongeneral fund component of the budget is underway and is successfully gaining support. Virginia Tech has several significant requests outstanding for private funding for the Signature Engineering Building, which is a top priority for the College of Engineering in the current Campaign for Virginia Tech. The University is confident that it will be successful in raising private gifts to address the nongeneral component of this project. Private support has already been received from a number of Virginia Tech alumni who are also successful business men and women in the Commonwealth. They acutely understand the importance of maintaining Virginia Tech's standing as a supplier of highly trained engineers.

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Abbitt	Howell, A.T.	O'Bannon
Albo	Howell, W. J.	Oder
Alexander	Hugo	Orrock
Amundson	Hull	Peace
Armstrong	Iauinto	Phillips
Athey	Ingram	Plum
BaCote	Janis	Pogge
Barlow	Joannou	Poindexter
Bell	Johnson	Poisson
Bouchard	Jones, D.C.	Purkey
Bowling	Jones, S.C.	Putney
Brink	Kilgore	Rust
Bulova	Landes	Saxman
Byron	Lewis	Scott, E. T.
Caputo	Lingamfelter	Scott, J. M.
Carrico	Lohr	Shannon
Cline	Loupassi	Sherwood
Cole	Marsden	Shuler
Cosgrove	Marshall, D. W.	Sickles
Cox	Marshall, R. G.	Spruill
Crockett-Stark	Massie	Suit
Dance	Mathieson	Tata
Ebbin	May	Toscano
Eisenberg	McClellan	Tyler
Englin	Melvin	Valentine
Fralin	Merricks	Vanderhye
Frederick	Miller, J.	Ward
Gear	Miller, P.	Ware, O.
Gilbert	Moran	Ware, R. L.
Griffith	Morgan	Watts
Hall	Morrissey	Wright
Hamilton	Nichols	
Hargrove	Nixon	
Hogan	Nutter	

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