HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

THE CITADEL

$40,000,000 - Capers Hall

Description of the facility:
The Citadel proposes a dual renovation/construction project of Capers Hall. The original 4 story steel framed structure was completed in 1951 with 43,700 square feet of floor space. A new wing of 27,100 square feet was added in 1977 for a total square footage of 70,800 square feet was designed to serve a corps of cadets of approximately 1700 students.

Capers houses The Citadel's School of Humanities and Social Sciences and The Zucker School of Education. Currently, Capers Hall provides 41 classrooms, 4 computer classrooms, and 112 faculty offices. The facility produces 42% of total credit hours generated, teaches 56% of core curriculum on campus, and accounts for 40% of faculty, majors and degrees awarded.

The building has outlived its life expectancy by 10 years. The cost of renovating the current Capers Hall exceeds the cost of replacement. The current Capers Hall lacks the capacity to effectively teach students in the 21st Century from both a functional and technology stand point. Of the many issues with the current building, Capers does not meet current earthquake standards and has American with Disability Act limitations that a new facility would correct.

Explanation of the request:
The dual renovation/construction is a result of the lack of available ground space or capability to construct a temporary classroom and office facility capable of supporting that number of credit hours generated within Capers Hall. The Citadel also does not have the capability of absorbing this requirement in other classroom facilities due to its current Classroom Utilization percentage and its average size per Student Station. The new facility would be sized between 104,000 square feet (43,700 SF renovation/60,300 SF addition) and it would cost an estimated $44.5 million to design, construct, renovate and equip the new facility and partially demolish the old facility. The project would be completed in 4 phases: partial demo of the 1977 addition; partial construction of the new building; demo of the remaining 1977 structure; and renovation of the 1949 structure.

- Site Development - $2,496,000
- Renovation (43,700 sq. ft.) - $8,871,100
- New Construction (60,300 sq. ft.) - $19,115,000
- FF&E, Fees, & Contingency - $10,167,488
- Escalation Costs - $3,409,426

$2,500,000 - Stevens Barracks

Description of the facility:
The Citadel proposes to renovate and repair this barracks that currently houses 442 cadets. Stevens currently contains 205 rooms in the barracks in either a 2-person or 4-person configuration. This barracks represents the only housing facility that has not been renovated to date. The building was built in 1942 with 57,225 square feet to house cadets.

An asset management study identified $3,100,000 million of requirements to bring the facility to a "green condition" which would extend the life of the building by 10 years which is imperative as The Citadel Master Plan calls for replacing Steven Barracks in 2026. Funding of these maintenance and repair items is critical to extending the life of the building until that time.

The Citadel spent $550,000 in the current fiscal year to renovate 5 bathrooms (4 male/1 female) and plans to spend an additional $500,000 to renovate the remaining restrooms in the summer of 2017. School funds are being used as they are available. In addition to the bathroom repairs accomplished this past year, stairwell repairs to include both handrail replacement and resurfacing of the existing stairs were completed and a complete repainting and floor refinishing is scheduled for summer of 2017.

Explanation of the request:
Repairs to exterior windows and doors, plumbing, window HVAC replacements, and facility-wide electrical repairs and maintenance

$1,500,000 - Stem Lab Renovations

Description of the facility:
The Citadel proposes to renovate 11 biology and chemistry labs housed in Duckett Hall and Byrd Hall. Duckett Hall is a 23,900 square foot building built in 1971, and Byrd Hall is a 49,675 square foot building built in 1968.

Over the past 15 years, the number of majors in Biology and Chemistry have grown 50%, and each program currently serves an additional 450 students through their general education offerings. This has put increased pressure on our existing laboratory spaces. In both buildings, the majority of laboratories have their original lighting, floors, ceilings, and cabinetry.

With current floor designs, there is little room for the movement of students, equipment, and supplies. Faculty have difficulty circulating around the lab during instructional periods. Storage allocations are small and inadequate for items used in contemporary laboratory settings, leading to cluttered benches.

Use of modern pedagogy and innovative instructional methods for student learning are limited in current laboratories. In the biology labs, all have fixed wet bench seating, making it impossible to create flexible seating arrangements to facilitate collaborative learning and small group activities. In the chemistry labs, there is not enough bench space or fume hoods to accommodate inquiry-based learning. In all labs, there is limited integration of computer technology. The renovation will allow for accommodation of growth in the STEM majors.

Explanation of the request:
Repair of bench space and fume hood stations.

$23,024,000 - Critical Maintenance Plan

CLEMSON UNIVERSITY

$10,500,000 - Daniel Hall Renovation

Description of the facility:
Clemson University proposes renovation of Daniel Hall. Constructed in 1969, Daniel Hall is the principal classroom building for Clemson students, housing classes for students from every discipline. It has undergone minimal renovations throughout its lifetime and is therefore in poor condition and unable to support contemporary teaching and learning methods. This project is of high importance towards Clemson's capital strategy of maintaining and improving existing assets for future list and will enable the University to continue using a keystone building centrally located on campus.

Explanation of the request:
Daniel Hall will undergo a gut renovation of the building's systems, auditorium and interior finishes along with an HVAC upgrade. Accessibility will be improved by renovating bathroom and exterior doors.

$15,000,000 - Martin Hall Renovation

Description of the facility:
Clemson University proposes renovation of Martin Hall. Constructed in 1962, Martin Hall is a 90,000 square foot central academic building in need of an HVAC and complete window replacement. The HVAC system is original to the building and has numerous deficiencies resulting in poor indoor air quality, poor humidity control and inconsistent temperature controls. The windows are single-glaze operable windows which no longer work and are not energy efficient. This renovation is a priority as part of Clemson's capital strategy of maintaining and improving existing assets for future use and will enable the University to continue using a keystone building centrally located on campus.

Explanation of the request:
Replacement of HVAC and complete window replacement

$14,000,000 - Long Hall Renovation

Description of the facility:
Clemson University proposes to complete a substantial renovation of Long Hall, a centrally located academic building that was built in 1937. The 71,000 square foot building was constructed for the Agriculture department and has never been renovated. Exterior and interior upgrades are expected to extend the useful life of the building by 30-40 years. This project is of high importance towards Clemson's capital strategy of maintaining and improving existing assets for future list and will enable the University to continue using a keystone building centrally located on campus.

Explanation of the request:
Renovation of the building's envelope, including replacement of roof sheathing and tiles, along with a complete HVAC replacement. Additional renovations include plumbing and electrical system replacements.

$78,375,000 - Core E&G Maintenance, Repair and Renovation Projects (Unfunded)

$14,929,500 - Core E&G Maintenance, Repair and Renovation Projects (FY17 Priorities)

$204,896,914 - Core E&G Maintenance, Repair and Renovation Projects (Cumulative / Total Project Budgets as of FY 16 – multi-year capital projects)
Expenditures within FY 16: $35,842,921

COLLEGE OF CHARLESTON

$3,900,000 - 58 George Street

Description of the facility:
The College of Charleston proposes renovation of 58 George Street, an historic home that falls under the protection of the Board of Architectural Review (BAR). As a result, it must be restored or renovated per the direction of the BAR. This building formally housed the John Rivers Communications Museum and is located in the heart of the campus. The house was originally built in 1803 and has 7,622 square feet. It was recently removed from service in fall 2015 based on a report by a preservation engineering firm citing numerous unsafe structural components. In December 2015, limited work was completed to reinforce the internal stair system necessary to allow college staff to begin the removal of the museum items and exhibits. When the building comes back on-line following renovation, it will serve multiple offices on campus. Renovation work will include: reinforcement of masonry; demolish the non-original addition; minor rework of the floorplan to improve utilization and efficiency; framing upgrades to flooring and porch systems; repairs to windows and wood siding as necessary; installation of fire suppression; and installation of new mechanical systems. This project is listed as Year 1 of the 2016 CPIP.

Explanation of the request:
Floors 2-4 of the fully renovated house will be converted from a museum into the new home for the College's Career Center. The relocation of the Career Center to the heart of campus will raise the level of visibility and utilization of center's services; not to mention highlight the College's commitment it its success. In addition to career counseling and assistance with career placement, the College's Career Center serves as a hub for job shadowing, internships, apprenticeship, and other job-training programs. The Career Center is also in the process of expanding its scope to track College of Charleston graduates to help build an active alumni employment base and to track the success of our graduates. 60% of students are currently placed an internship opportunity and the College would like to place 70%. The current 'placement rate' for at the time of commencement: for employment is 52%, goal 60%; for graduate school 14%, goal 18%.

$3,200,000 - 123 Bull Street

Description of the facility:
The College of Charleston proposes renovation of 123 Bull Street, an historic home that falls under the protection of the Board of Architectural Review (BAR). As a result, it must be restored or renovated per the direction of the BAR. The house was originally built in 1868 and has 5,172 square feet. This building is part of the College's Avery Research Center for African American History and Culture. It has been offline and unused since summer 2013. Once renovated, the restored house will serve as an extension of the Avery Center.

Explanation of the request:
Renovation to include: replace/repair wood framing; replacement of brick piers; repair two-story piazza; address and remediate moisture intrusion; replace roof; repair/replace windows as needed; address ADA compliance issues; installation of fire suppression; and installation of new mechanical systems

$3,150,000 - 13 Coming Street

Description of the facility:
The College of Charleston proposes renovation of 13 Coming Street, an historic home that falls under the protection of the Board of Architectural Review (BAR). As a result, it must be restored or renovated per the direction of the BAR. The house was originally built in 1854 and has 5,114 square feet. This building is located across from McConnell Residence Hall, and before being removed from service in May 2013 for unsafe structural conditions, it was used by Residence Life. After renovation, the house will return to service as an academic support space.

Explanation of the request:
Renovation to include: reinforcement of masonry; framing upgrades to flooring and porch systems; installation of fire suppression; and installation of new mechanical systems

$9,750,000 - Stern Student Center Pool Conversion

Description of the facility:
In the spring of 2015, the College ended its varsity swim program due in part to major facility concerns associated with the pool. Now closed and drained, the pool area represents 19,000 square feet of dead space on a campus with major space challenges.

Explanation of the request:
Renovation to include repurposing of space for academic space and student activities.

$53,000,000 - Simons Center for the Arts Renovation

Description of the facility:
The Simons Center was constructed in 1979 and is in serious need of modernization of its mechanical systems and physical alterations.

Explanation of the request:
Renovation to include exterior and interior retrofit.

$23,000,000 - Silcox Physical Education and Health Center Renovation

Description of the facility:
The Silcox was initially built in 1939 as a Works Progress Administration project. In its current configuration, the building has a total square footage of 48,904. The building is protected as a historical structure and is in need of major exterior and interior repair. The last renovation was done in 1995. The Silcox is the only dedicated home for the College's School of Education, Health, and Human Performance. The project is listed as Year 3 of the 2016 CPIP as a result of delays due to funding constraints. Renovation work will include significant envelope and masonry repair to eliminate water intrusion; window modernization and replacement; total roof replacement; complete renovation of interior space to bring the building into current code and accessibility compliance; reworking the gymnasium space to move from a 3 floor gymnasium to a 2 floor gymnasium, allowing for an additional floor/square footage for academic and research space; new mechanical systems; and new electrical systems.

Explanation of the request:

The building will remain the primary home of the teaching and research activities of the School of Education, Health, and Human Performance. The School has seen enrollment growth (primarily in the Health majors) of nearly 40% since 2010, and now serves over 4,000 students. The improved space efficiency and added square footage from the 3rd to 2nd floor gymnasium conversion will allow the school to meet the space demands generated from enrollment growth in the school. The added space will also be a part of the School's and College's commitment to address the possible 40,000 person teacher shortage South Carolina could face over the next decade. The renovated gymnasium will be designed to meet both athletic/intermural/teaching needs as well as large scale meeting room/event space that is in high demand at the College and the downtown business district.

$482,136,064 - Outstanding Major and Minor Construction and Repair Projects

COASTAL CAROLINA UNIVERSITY

$1,525,240 - Eldred E. Prince Building

Description of the facility:
The Eldred E. Prince Building was built in 1994 and is two-stories and a total of 30,948 square feet. The building currently houses the College of Education, which has a total of 1,232 students which is 12% of the total student body and is in a central location on the main campus. It continues to be an academic-oriented building, with many students passing through the doors.

Explanation of the request:
Renovation plans include roof, mechanical, plumbing and electrical upgrades, as well as interior and exterior refurbishments.

$3,214,359 - Kimbel Library

Description of the facility:
The Kimbel Library, at the academic heart of the university, was built in 1976 and is one of the older buildings on the campus. This 41-year old building is a popular meeting place for students as well as a training facility for the Information Technology Department. Students have resources such as help with on-line courses, availability of printers, laptop computers, research guides available to them at the Kimbel Library.

Explanation of the request:
Renovations planned for this building include mechanical, plumbing, interior and exterior refurbishments, FF&E to replace highly utilized equipment and roof repairs. There are extensive electrical upgrades planned for this renovation.

$1,097,686 - Kearns Hall

Description of the facility:
Kearns Hall was the second building constructed in 1973, on the main campus. It has 31,283 square feet. Kearns Hall currently serves as the hub of our Honors Program and University College. There are tutoring services available to students located in this building such as a Foreign Language Instructional Center, a Mathematics Learning Center, learning assistance in sciences, a Writing Center and structured learning assistance. These centers provide one-on-one consultations for all Coastal Carolina University students working on assignments in CCU courses, regardless of major or level of proficiency. From early brainstorming to the final stages of proofreading, our undergraduate and graduate tutors are available to offer assistance to students in any academic discipline at any stage of their learning process.

Explanation of the request:
Renovation plans include roof, mechanical, plumbing and electrical upgrades, as well as interior and exterior refurbishments.

$79,093,371 - Total Outstanding Maintenance Needs

HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

FRANCIS MARION UNIVERSITY

$8,000,000 - Medical Health and Education Classroom Complex

Description of the facility:
Francis Marion University has an array of medical and health science programs to include the Bachelor of Science in Nursing, Master of Science-Nurse Practitioner, Master of Science-Nurse Educator, the Master of Science in Physician Assistant Studies and the Master of Science in Applied Psychology. In addition, third and fourth year medical students from the University of South Carolina School of Medicine use facilities at FMU, McLeod Health and Carolinas Hospital to complete the requirements for their clinical rotations. This past year, the university opened a new health sciences facility to accommodate these existing programs.

Over the past couple of weeks, the university has been approached by donors who wish to purchase an adjoining building for $3.9M and gift it to the University's Education Foundation. Built in 1906, this 4 story, 32,000 square foot facility served as the County Post Office until its replacement in 1975. Included on the National Register for Historical Places in 1977, the property has previously served as a court house and office space for local law firms and other businesses in the City of Florence.

The university would use this building to expand the growth of existing health and medical programs and house future programs in speech, occupational and physical therapy. By the time the renovation is completed, the nurse practitioner program will have expanded by 25%, the physician assistant program will have added another class and doubled in size, and the third- and fourth-year medical students will have increased by an-other 30%. In addition, we will be opening our speech therapy within a semester of the building's occupancy. These new and expanded programs will fill a substantial portion of the space provided by the building.

It's FMU's intent to preserve the unique design and beauty of this historic landmark while equipping it to be a contemporary instructional facility. This building is in close proximity to downtown hospitals where most of these students would complete their clinical requirements.

We anticipate the project cost to be $11.9M to purchase and convert this building. The donor purchase will cover approximately one third of the total cost. The university is requesting capital funding of $8M to renovate the facility for offices, class-rooms, lecture halls and clinical laboratories. We also anticipate developing a behavioral health clinic to support the university's applied psychology program. This clinic would be operated in cooperation with Hope Health and provide mental health counseling services to the local hospitals, school districts and women/children's shelters.

Explanation of the request:
The facility is currently being acquired by this group of donors and will be gifted to the University's Education Foundation upon request. Pending funding of this bond bill, Francis Marion will begin the process of title transfer and acquisition through the state capital projects system to acquire the property for renovation. FMU is also updating their CPIP to include this as priority #1 for FY16-17.

HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

$5,000,000 - Infrastructure Improvements

Description of the facility:
Francis Marion University respectfully requests $5 million in non-recurring funding for Infrastructure Improvements. Infrastructure Improvement Requests includes Fiber/Information Technology Improvements, Paving Projects, Building Renovation, Sidewalk Repairs, and Underground Piping Repairs.

Explanation of the request:
While FMU strives to offer the very best technological advances to its students, the buildings require continual substantial renovation to the cabling and cable infrastructure to ensure technology needs of students, faculty and staff are met. This portion of the request would be to enhance the current cabling to accommodate more equipment as well as ensure our sufficient connectivity for the telephone system.

Projects	**Estimate**
Cabling and Connectivity Renovations	

Enhanced Explanation: While FMU strives to offer the very best technological advances to its students, our buildings require continual substantial renovation to the cabling and cable infrastructure to ensure technology needs of our students, faculty and staff are met. This portion of the request would be to enhance our current cabling to accommodate more equipment as well as ensure our sufficient connectivity for our telephone system.

1. Single Mode - PP to B Dorm to F Dorm	$	35,000.00
2. LSF/MSB - New Cable	$	100,000.00
3. Observatory - Pull Fiber	$	28,000.00
4. SAB - New Cable	$	55,000.00
5. FH/CEMC - New Cable	$	60,000.00
6. Network Switches - Various Bldgs.	$	100,000.00
7. WAP Licenses	$	20,000.00
	$	398,000.00

Paving Projects Renovations

Enhanced Explanation: Being primarily a commuter college on the outskirts of Florence, our campus and its students heavily rely upon motor transportation and our road and parking lot infrastructure. Unlike an urban campus, many of our roads and lots are self-maintained. For liability purposes, it is critical that we ensure roads as well as parking lots are maintained to ensure the safety and security of our students.

1. Pave Lot F	$	220,000.00
2. Pave Lot E	$	81,500.00
3. Pave Lot D	$	190,000.00
4. Pave Patriot Drive	$	70,000.00
5. Pave Cottage Road	$	162,500.00

6. Pave Robert C. Scott Drive	$ 23,000.00
7. Pave Alumni Drive	$ 185,000.00
8. Pave Warehouse	$ 75,000.00
	$ 1,007,000.00

Building Renovations

Enhanced Explanation: The Leatherman Science facility constructed in 1994 and the McNair Science Building constructed in 1972 are our primary facilities for our STEM programs. Both facilities are in need of major renovation to bring our academic facilities up to modern academic standards and to ensure our students receive the best facilities we can offer. Many of our STEM programs are not only majors in their own but serve our other majors in meeting base core class requirements.

McNair & Leatherman Science Facility $ 3,000,000.00

Sidewalks Maintenance

Enhanced Explanation: FMU's sprawling campus has miles of sidewalks that connect our buildings on campus and are self-maintained. Our beautiful landscape of trees and greenery wreak havoc on our sidewalks annually. In order to maintain safe and accessible walkways, we must continually repair and level sidewalks. These funds will be used to supplement our current efforts at ensuring our students have safe paths.

1. Multiple Areas $ 195,000.00

Unground Piping Replacement/Repairs

Enhanced Explanation: Much of the University's underground water, sewer, and boiler system piping has reached its factory recommended service life. These funds would go to replace the most critical areas that need replacement.

1. Multiple Areas $ 400,000.00

LANDER UNIVERSITY

$1,987,863 - Classroom & Lab Upgrades

Description of the facility:
Lander requests funding to retrofit and upgrade existing classrooms to accommodate enrollment growth. There has been significant growth in Nursing and STEM curriculums and the need for upgrading classrooms and labs with technologically advanced equipment is a necessity.

Explanation of the request:
Upgrade nursing equipment and convert non-classrooms into classroom and lab space.

$5,000,000 - Nursing Building

Description of the facility:
Lander's School of Nursing has been housed in Barrett Hall since 1998, and has not had any major renovations or additions. Because of the program's steady growth during that same timeframe, there is now a desperate need for additional space for classrooms, laboratories, and clinical experiences.

Beginning fall 2017, enrollment in the School of Nursing will increase by 50% in order to meet current nursing demands across our state. There is a demand for more seats in the nursing program – in fact, over the last five years, we have seen almost one third of the incoming freshmen class declare Nursing as their intended major. Additionally, graduates over the last five years have seen an employment rate of nearly 100% by the day of graduation.

Barrett Hall has four classrooms, two of which have a capacity of 40 seats; the other two classrooms can accommodate slightly more. Two areas are used as laboratories where students can receive hands-on training, but the spaces require careful scheduling as they are shared among several classes. Current space will only allow for one simulation lab, which is small and also requires careful scheduling for multiple classes. With funding for an addition and renovation to Barrett Hall, the School of Nursing would have space for all new, state of the art laboratories and a simulation center. The simulation center will be outfitted to model the work-flow of a healthcare facility, to create a true clinical experience for students.

Explanation of the request:
To renovate the current nursing building to include additional space for classrooms, laboratories, and clinical experiences.

$7,500,000 - Grier Student Center

Description of the facility:
Lander University's Grier Student Center was completed in 1979 for an enrollment of approximately 800 students. This fall's enrollment of 2,772 represents a 346% increase over the original design capacity of this building, leaving the University in desperate need of additional space to accommodate our current and future students. The changing nature of the delivery of

education has necessitated the inclusion of academic and instructional space to be included in the Grier Student Center.

Explanation of the request:
To renovate the Grier Student Center to incorporate additional classroom and meeting space for student organizations. This, of course, will be married and coexist with student meeting space.

$500,000 - Immediate Maintenance Needs

Description of the facility:
Lander requests funding for replacement of the 20 year old cold water chiller for HVAC needs in the Grier Student Center and Cultural Center. If the chiller ceases to work, the cost per day to operate a temporary chiller will be $3000 a day.

Explanation of the request:
To replace the 20 year old cold water chiller for HVAC needs in the Grier Student Center and Cultural Center.

$16,362,000 - Maintenance Needs for Plan Years 1 -5

SC STATE UNIVERSITY

$5,000,000 - Information Technology

Description of the facility:
Due to the growth in the number of network applications (i.e. educational, scientific experiments, and business processes) coupled with the increased amount of mobile devices, SC State's dated network has seen a significant increase in traffic. This demand on the dated systems continues to slow educational and operational processes. This has resulted in students not being able to: 1. access learning resources online, 2. complete class assignments in a timely fashion. 3. access student purchasing card system (meals and books). Increases in the number of end-user applications require higher maintenance efforts which ultimately increase operational expenses. The dated network contains several critical resources that store student's sensitive data which must be protected from cybersecurity threats. Our dated system is below the current benchmark necessary to react optimally to cybersecurity attacks. To provide a robust and secure technological learning environment to support student enrollment, retention and success the dated network system must be updated.

Explanation of the request:
Funding priorities:
- Student access, security and purchasing card system ($250,000)
- Network Security Firewall ($200,000)
- Reliable Wi-Fi coverage and capability ($750,000)
- Network Switches – 270 units ($1,000,000)
- Secure Data Storage – 2 units ($300,000)
- Passive Optical Network for academic and research buildings – Phase I ($2,500,000)

$5,700,000 - Campus Wide Roof Replacement

Description of the facility:
Based on a roof assessment done campus wide, the following roofs were identified as the ones with the most pressing needs.

Explanation of the request:
Turner Hall ($775,000)
Staley Hall ($300,000)
Mays II ($90,000)
Williams Hall ($190,000)
Crawford Zimmerman ($90,000)
I.P. Stanback Museum & Planetarium ($500,000)
Whitaker Library ($350,000)
Hugine Suites ($1,300,000)
Moss Hall ($305,000)
Battiste Hall ($190,000)
Nance Hall ($355,000)
Felton Lab (655,000)

$8,465,000 - Truth Hall

Description of the facility:
As part of South Carolina State University's aggressive efforts to increase enrollment, there is need for additional campus housing. Currently, there are approximately 685 rooms offline associated in the following buildings: Earle, Mays I, Queens Village and Truth. As South Carolina State University continues its enrollment growth trend, the university is requesting appropriations to fully renovate Truth Hall. Truth Hall is a 14-story structure built in 1972 which includes 400 rooms, fitness center, laundry mat, and restaurant area, kitchen gallery will be brought online for vendor's use, and up fit to the fitness center for campus and community use. The renovation of Truth Hall will provide an opportunity for enrollment growth and financial stability.

Explanation of the request:
The project will include a renovation of the structure to include fire suppression, fire alarm, elevator upgrade, HVAC, paint, flooring, and code updates that may be required. The funds requested would cover architectural and engineering fees (structural, mechanical & electrical) as required by the Office of the State Engineer Manual - Chapter 4, asbestos abatement (if needed), installation of fire suppression and fire alarm systems, two new elevators, two new HVAC systems (fan coil units, chillers, stand-alone heating and hot water boiler units), improvements of deteriorated lobby space, upgrades to bathrooms, roof replacement, installation of security cameras and card access for doors and elevators, and upgrade to wireless access.

Professional Fees $ 800,000
As South Carolina State University continues its enrollment growth trend, the university is requesting appropriations to fully renovate Truth Hall consisting of 400 beds. Architectural and engineering fees are required in accordance with the Office of the State Engineer Manual - Chapter 4. This project requires structural, mechanical and electrical engineers. Based on the complexity of this project, fees should not exceed 7% of the total project cost $450,000. Although we do not know if it will be necessary, we are budgeting $350,000 for asbestos abatement.

Life Safety $1,900,000 This appropriation provides for the purchase and installation of fire suppression $1,200,000 and fire alarm system $700,000.

Elevators $ 475,000 This appropriation will provide for the purchase and installation of two new elevators $475,000.

Mechanical $2,400,000 This appropriation will provide for the purchase and installation of fan coil units $1,600,000, a new chiller, and stand-alone heating and hot water boiler units $800,000.

Renovations $1,900,000 This appropriation will provide for the improvement of a deteriorated lobby space $300,000, and upgrades to the bathrooms that will include painting, new flooring, tub/shower glazing, and bathroom appliances $1,600,000.

Roof repair $ 240,000 This appropriation will provide for the replacement of the residence hall roof.

Technology $750,000 Security cameras and card access to doors and elevator $12,000, computer monitors, projector, screens $250,000 and Wi-Fi $488,000. Provide a summary of the project and explain why it is

$1,500,000 - Storm Water Infrastructure

Description of the facility:
SC State requests funding for storm water infrastructure repairs and renovations to prevent future flooding of university assets. In the last 3 years, the school has experienced at least 4 floods that cost the University time and money. The existing storm water piping is not capable of removing water from roads and around buildings during heavy rainfall.

Explanation of the request:
This project will allow for civil upgrades around Hugine Suites and additional storm water piping to be installed at the front of the campus and around Belcher Hall, Nance Hall, and MLK.

$1,750,000 - Student Center Repairs

Description of the facility:
South Carolina State University is requesting funding to renovate its Student Activity Center, the 40 plus year old facility has maintenance/renovation needs.

Explanation of the request:
Renovations will include partial replacement of the student center roof, windows, doors, and floors, painting, and a new chiller. The chiller can be harvested for future use on the campus when funds for a new center are identified.

$13,059,577 - FY 17 Maintenance Needs

HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

UNIVERSITY OF SOUTH CAROLINA COLUMBIA

$50,000,000 - Old Law School Renovation

Description of the facility:
The University of South Carolina Columbia requests funding for the comprehensive redevelopment of the existing Law Center into the Science and Technology Center. The updated building will create additional teaching labs and academic space at the west district of the campus. The building is one of the largest academic buildings on the Columbia campus and its location on the western side of the campus is well situated as academic and student life is becoming more concentrated in this district.

Explanation of the request:
Renovation of the old Law School into the Science and Technology Center.

$31,000,000 - Comprehensive Building Renovation Projects

$11,307,068 - Larger Maintenance Projects

UNIVERSITY OF SOUTH CAROLINA-AIKEN

$3,500,000 - Penland Administration Building

Description of the facility:
The University of South Carolina Aiken is requesting funding to replace the HVAC system in the Penland Administration Building – The USC Aiken campus' oldest building (40+ years old). The Penland building is among the largest buildings on the USC Aiken campus (over 61,000 square feet.) The Penland building houses multiple classrooms, computer labs and faculty offices as well as student support services such as Enrollment/Admissions, Financial Aid, Records, and Business Services. Further, many of the University's technology services (including servers) are located in this space. Maintaining proper heating and cooling in this building is critical to fulfilling the mission of USC Aiken.

Explanation of the request:
The proposed project will replace the current 240-ton water cooled chiller with a new, high efficiency 250 ton (estimated) chiller, air handlers, VFDs, pumps, hot water boiler, air separator, refrigerant monitor, chemical treatment, valves, connective piping and ducts, controls and associated electric, roofing, ceiling grid, seismic bracing and plumbing.

The project estimate also includes architectural and engineering services, and other appropriate documentation. The access to the equipment requiring replacement within the building (small corridor/stair access with very low ceiling height) also provides unique challenges to this project, and due to campus-wide space constraints the building must remain operational (heated/cooled) during the HVAC upgrade.

$4,500,000 - Library Renovation/Learning Commons

Description of the facility:
The University of South Carolina Aiken is requesting funding to renovate the current library. The building is approximately 43,600 sq. ft. The project cost of $10M calculates to just under $230/sq. ft. This is comparable to (or slightly less than) similar renovations at other institutions and far less than new construction. Private and Institutional funding to accompany state support.

Explanation of the request:
Renovation of the current library.

$1,250,000 - Comprehensive Building Renovation Projects

UNIVERSITY OF SOUTH CAROLINA-BEAUFORT

$8,000,000 - Library/Classroom Expansion

Description of the facility:
USC Beaufort would construct an addition to the existing Library/Classroom building consisting of approximately 16,800 sq. ft. of floor space. This expansion would enhance the central academic core of the USCB's Hilton Head Gateway Campus. This expansion would include classrooms, faculty offices, and administrative workspaces. This expansion is needed to provide additional classroom and office spaces for our ever growing student population and faculty to serve them. USCB opened classrooms at the Hilton Head Gateway (HHG) Campus in fall 2004. Since that time, enrollment has increased by more than 117%. USCB's HHG Campus currently has only 17 general purpose classrooms. As documented in USCB's Facilities Master Plan, USCB has both immediate classroom space needs and a major future classroom space deficit. This shortfall in available space is projected to worsen and, without additional classroom space, become unmanageable over the next five years. Classrooms at the USCB HHG campus are scheduled for more hours of instruction per week than any of our peer institutions and exceeds this standard for SC CHE classroom utilization by 20%.

Additionally, many faculty currently share office space and shared desks in hallways. Over 50% of faculty share offices that were designed for one person, and this overcrowding is also projected to worsen. The latest SC Commission on Higher Education Facilities Utilization report based on Fall 2013 data ranks USCB as the second lowest among all four year public teaching institutions in the State relative to the quantity of assignable square feet of academic space per full time equivalent (FTE) student. USCB is only one of three schools in that same category that meet the SC CHE standard. Additionally, USCB's fall 2015 enrollment increased by 13% in FTE students. Based on our most recent internally generated preliminary headcount and FTE report dated 9-6-16, USCB is projecting an additional 2.1% increase in FTE for fall 2016.

Explanation of the request:
Renovate two classroom spaces in the Science & Technology Building into Natural Science laboratories. Replace those two classrooms by adding space to an existing building. Renovate traditional library book stack space into modern 21st century Learning Resource Center.

$2,475,000 - Comprehensive Building Renovation Projects

UNIVERSITY OF SOUTH CAROLINA-UPSTATE

$8,000,000 - Smith Science Renovation

Description of the facility:
The Smith Science building was constructed in 1984 and has been modified minimally through the years. As enrollments in the science curriculum continue to increase, the existing space needs to be expanded and renovated to meet the teaching and technology demands. To date, we have converted general classrooms to lab space and office suites to research space to try to accommodate the increased demand. This project would upgrade existing space and add much needed teaching lab spaces with fume hoods for the Division of Natural Sciences and Engineering. The renovation of the science laboratories and preparation area at USC Upstate is currently rated as high priority on the college's master plan as well as its annual five year CPIP.

The scope of work will replace existing fume hoods and student work spaces in existing labs and upgrade the mechanical infrastructure. The infrastructure in this building was not designed to meet the needs of the current STEM curricular demands for students or faculty. Many of our current labs need updating to ensure we have recommended station space per student (CHE standard) and to ensure we can accommodate students with disabilities, which is difficult to do in the current space. The current lab tables were built when the building was opened and are in need of replacement. Additionally, with the shifts in majors from pure science focus to more anatomy and physiology to support nursing and exercise science, Upstate needs to convert lab space to align with curriculum trends and to educate the nurses and STEM students.

These funds will also be used to construct an addition adjacent to the existing science building to include additional teaching lab space with fume hoods, large classroom, computer lab, faculty offices, and associated support spaces. This additional teaching laboratory space is needed in order to accommodate increasing numbers of students taking courses in the Division of Natural Sciences and Engineering. Each semester, the Division of Natural Sciences and Engineering, provides labs not only for our ~400 biology and chemistry majors, but also for pre-nursing, physical education, and exercise and sport science majors. In total, approximately 80 laboratory sections are offered each semester with a typical enrollment of 24 students each (or just under 2000 seats per semester). Upstate is critical to serving the needs for healthcare professionals in the upstate; currently, USC Upstate awards more nursing degrees than any other university in the state.

Explanation of the request:
Renovate by adding academic support space to include faculty offices, seminar rooms, and fabrication space for classroom support materials. The renovation will also add a technology laboratory to support the growing graphics design and computational science programs.

HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

UNIVERSITY OF SOUTH CAROLINA-PALMETTO COLLEGE

$750,000 - Lancaster - Gregory Health & Wellness Center

Description of the facility:
Facility houses PEDU classes, staff offices, athletic programs and a number of community programs. The roof and HVAC system is at the end of its life expectancy and beyond repair.

Explanation of the request:
Repair of roof and HVAC system.

$1,700,000 - Salkehatchie - Walterboro Science Research Building

Description of the facility:
Convert portion of Walterboro Science Research building converted into needed instruction classrooms, offices, and space economic development events such as hosting perspective industries.

Explanation of the request:
Renovation of classrooms and offices.

$4,500,000 - Sumter - Science Building

Description of the facility:
Renovate current 2300 square-foot building to house classrooms and laboratories for Math, Science and Engineering division. Includes office space for division faculty. Current laboratory facilities are over 50 years old. Outdated labs have to double for lecture rooms. Air-quality, health, and safety are major issues.

Explanation of the request:
Renovation of building for more classroom and lab space.

$990,000- Union - Truluck Gym

Description of the facility:
Addition to include locker rooms, showers, coaches' offices and weight room. Campus added club sports in baseball and softball this year. Men's and women's soccer will be added next year.

Explanation of the request:
Addition to current gym.

$3,643,000 - Physical Plant Maintenance

HIGHER EDUCATION & TECHNICAL SCHOOLS SUBCOMMITTEE
BOND BILL REQUESTS

THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

$153,253,000 - Capital Renewal

Description of the facility:
MUSC requests funding to maintain critical systems to provide an acceptable working environment within facilities for students, faculty, staff, patients, and visitors. Critical systems include mechanical, electrical, plumbing, exterior façade, roofs, conveyance and building envelope. ***MUSC commits to the one-to-one match for capital renewal stewardship funding.***

Explanation of the request:

MUSC - Hospital	**$100,185,000**
Ashley River Tower	$6,495,000
Bee Street CEP	$615,000
Campus	
Children's Hospital	$13,231,000
Psych Hospital	$13,250,000
Rutledge Tower	$41,860,000
Rutledge Tower Annex	$2,952,000
Rutledge Tower CEP	$5,422,000
Sabin Street CEP	$1,612,000
University Hospital	$14,748,000

MUSC - University	**$53,068,000**
135 CANNON ST. (CANNON PLACE)	$1,558,500
ALUMNI MEMORIAL HOUSE	$512,500
BARUCH AUDITORIUM	$171,000
BASIC SCIENCE BUILDING	$7,394,500
BIOENGINEERING BUILDING	$238,500
BSB MECHANICAL EXPANSION BLDG	$1,714,000
CLINICAL SCIENCES BUILDING	$8,343,500
COLBERT EDU CENTER AND LIBRARY	$422,000
COLCOCK HALL	$208,000
COLL OF HLTH PROF COMPLEX "A"	$411,000
COLL OF HLTH PROF COMPLEX "B"	$240,500
COLL OF HLTH PROF RESRCH BLDG	$723,500
COLLEGE OF NURSING	$103,000
DARBY CHILDREN'S RESEARCH INST	$1,589,500
DENTAL CLINICS BUILDING	$139,000
DRUG DISCOVERY BUILDING	$154,000
E BUILDING	$2,456,500
F BUILDING	$4,197,500
Grounds	$1,367,000
HARPER STUDENT/WELLNESS CNTR	$2,261,000

HOLLINGS CANCER CENTER	$5,331,000
Infrastructure	$700,000
PSYCHIATRIC INSTITUTE	$1,443,000
STORM EYE INSTITUTE	$5,277,000
THURMOND/GAZES RESEARCH BLDG	$4,488,000
WALTON RESEARCH BUILDING	$1,624,000
Grand Total	**$153,253,000**

$15,000,000 - Renovation Projects

Description of the facility:
MUSC requests funding to renovate and back-fill spaces to ensure alignment of academic and clinical missions.

Explanation of the request:
Basic Science Building 7th Floor Biorepository Renovation - $1,500,000
Hollings Cancer Center 7th Floor Lab Renovations - $2,000,000
Hollings Cancer Center 3rd Floor Lab Renovations - $1,000,000
Clinical Science Building 8th Floor West Side Renovations - $1,250,000
Clinical Science Building 4th Floor Renovations - $500,000
Thurmond Gazes 6th Floor Lab Renovations - $1,000,000
Basic Science Building 1st floor common area - $1,000,000
Psych Institute phase 1 renovation - $3,180,000
Thurmond/Gazes Renovation/connection - $2,520,000
Kitchen House renovation - $3,000,000

WINTHROP UNIVERSITY

$6,310,000 - Electrical Distribution Upgrades

Description of the facility:
Because Winthrop University is committed to effective risk management, the university seeks $6.31 million to enhance its capacity to provide a learning and living environment that is safe and operates efficiently. These are the kinds of renovations, repairs, and refits that may not be apparent to students, faculty, and staff but will result in savings and reduce the university's vulnerability to system failures.

Explanation of the request:
$2.0 million - Electric Distribution Modernization: In order to bolster the university's well-deserved reputation for sustainability and energy efficiency, Winthrop seeks funding to replace a 47-year-old electric substation, which has been regularly maintained but has reached the point of not warranting further investment of resources. Only four of five circuit breakers continue to function and the connecting wiring is dated. Despite regular maintenance, ongoing issues with cracks and leakages create a potential for system failure. The substation would be replaced by one with five new 4,160-volt circuit breakers and wiring that would be significantly more reliable.

$2.0 million - Steam Line Renovation and Enhancements: Winthrop seeks funding to replace a system of underground steam and condensate pipes that date from the 1960s and serve 13 buildings across campus. Despite regular maintenance, this steam network is at substantial risk of failure and operates inefficiently as result of extensive cracks and leaking. The replacement of pipes could allow the institution to realize savings that exceed $100,000 annually.

$1.1 million - Fire Alarm Upgrades and Enhancements: Winthrop seeks funding to upgrade the university's fire alarm system. Although the system has been regularly maintained, its replacement parts have become scarce and the software used is no longer supported. Upgrades include adding a new central receiver in our Police Department, rewiring building interiors, and replacing and adding additional strobes, horns, public notification screens, and pull stations to meet current standards.

$210,000 - Full WiFi Coverage in Thurmond Hall: Winthrop seeks funding to create complete WiFi coverage in Thurmond Hall, one of Winthrop's older classroom and office buildings, that houses the College of Business Administration. The building's thick, load-bearing exterior walls and steel-frame construction present a challenge for the installation and deployment of wireless technology. The building lacks cabling pathways or easy access areas such as dropped ceilings and mechanical chases. Existing cabling conduits are filled to capacity and will not accommodate extra cabling needed for wireless access points. New pathways need to be created and will require both vertical (ceiling) and horizontal (wall) penetrations throughout the building. To create these access points, the university will need to create cabling pathways (including fiber and copper wiring), situate 40 wireless access points, add switching equipment, remodel the main telecom closet and add cooling.

$1.0 million - Roof replacements: Winthrop has an excellent record of maintaining roofs well beyond their expected lifespan. Buildings that now require new roofs because patching and repair have become less effective are Johnson Hall roof (32 years old) and Thurmond Hall roof (77 years old). Both structures are major classroom and office buildings used by hundreds of students on a daily basis.

$29,000,000- Winthrop Science Complex

Description of the facility:
Winthrop requests support to renovate the Science Complex facilities (Dalton Hall and Sims Hall) to renovate four teaching labs in the Sims Chemistry, Physics, and Geology facility. The programs and degrees currently offered in these facilities produce graduates who attend both South Carolina Medical Schools as well as programs for physical therapy, nursing, industry, forensics, pharmacy study, medical research, materials research and development, and human nutrition. Such facility improvements will support traditional and returning adult students as they hone their technology skills in an array of laboratories and equipment in demand throughout medicine, business and industry. For example, the number of students majoring in Biology, Chemistry, and Human Nutrition has increased 12.1%, 17.1%, and 12.9% respectively; and the numbers continue to grow. These programs require students to participate in practical applications of the knowledge learned by participation in undergraduate research or internships/practical. Additional specialized learning spaces are needed for the increasing numbers of students in these programs. These changes will also allow the university to expand its offerings in additional health related fields that are in high demand because of local and state needs (such as health informatics and public health programs) and emerging fields within the health sciences.

Explanation of the request:
Additional teaching space and lab space for biology, chemistry, and nutrition. Renovation of labs in the Simms Science Building and Dalton Hall.

$2,900,000- Roof Repairs

Description of the facility:
Roof repairs/replacements campus wide.

Explanation of the request:
Coliseum roof: $1,500,000
Central Energy Building: $300,000
Dinkins: $500,000
Operations Center: $600,000

$78,041,440 - Critical Maintenance Needs

SC STATE BOARD FOR TECHNICAL AND COMPREHENSIVE EDUCATION

$194,201,049 - Total Bond Bill Maintenance Requests

$240,764,000 - Total Capital Facilities Requests

$70,615,122 - Total Equipment Requests
Additional information on equipment requests included in package.

Aiken Technical College

$7,500,000- Maintenance Request

Explanation of the request:
Ashley J. Little Building Renovation: renovation of the second floor to include modernization and technology in classrooms.

Gregg-Graniteville Student Activities Center Renovation: Renovation and modernization of the building to create more opportunities for student engagement.

Learning Resource Center Renovation: Modernization of the library and enhance students' access to updated technology

$5,844,000- Life Science Building - Capital Request

Aiken Technical College requests a new Life Science Building in its 2017 Legislative Session capital request. The Life Science Building will support biology, anatomy and physiology, microbiology and chemistry course labs and classrooms. These courses are included in program requirements for fourteen different health science and nursing programs as well as science requirements for the Associate of Arts and Associate of Science programs. Currently, only three labs are available on campus to support the diverse set of science courses. Limited space restricts the College's ability to meet student demand.

A 30,000-square-foot Life Science Building will house six labs, seven 50-student capacity classrooms, faculty offices, general meeting space and will accommodate current and future lab space needs. The current biology, anatomy and physiology, and chemistry labs in the Health Science Building will be re-purposed into health science program lab space to allow for the expansion of current programs and to accommodate future Health Science program development.

Aiken Technical College is requesting $5,844,000 in construction funds to supplement existing construction resources. The College is also actively seeking additional funding resources to support this project.

$2,650,215- Equipment Request

Central Carolina Technical College

$5,000,000- Maintenance Request

Explanation of the request:

HVAC Replacements and Lighting Upgrades: Replacement of HVAC systems and lighting upgrades to reduce energy costs.

Fire Alarm Systems Replacement/Upgrade: Replace fire alarm systems in older facilities for integration with emergency notification systems, web access, and other features.

Parking Lot Repaving: Resurface and level parking lots on main campus.

$10,000,000- Workforce Development Center- Capital Request

The Central Carolina Technical College Workforce Development Center will address the need for a skilled workforce in our service area of Sumter, Clarendon, Lee, and Kershaw counties. Our partnerships with both the economic development organizations in our area, as well as the local school districts have progressed well, but this facility will allow us to aggressively meet the skilled workforce needs of the business and industry community. There is a definite need for this facility to meet the needs of existing industry as the high technology jobs of the present and the future will require a higher skill level for current employees. In addition, as the economic development officials in our region work to attract new economic development projects, the immediate question is how will the local technical college provide a training opportunity if a company decide to locate in our region of the State? This facility will provide the opportunity to collaborate with six local school districts to begin the seamless transition for the secondary school system, which is focused on general education, to a more specialized training, which is necessary to meet the needs of local industry. The College will enroll students through dual enrollment programs in this facility, which will match the skills necessary for the jobs, which exist in our region. We will also partner with business and industry leaders throughout our four county service area to determine specific job training, which may be both short-term and long-term in nature depending upon the needs of business and industry. Recent expansion of businesses such as Continental Tire in Sumter County and Haier in Kershaw County have positioned the college to be the first option for providing a highly skilled workforce for these expanding industries. As our region of South Carolina continues to evolve, the College must maintain its leadership role in meeting community needs. We are currently and will continue to be the leading economic development tool for securing a skilled workforce for existing and new business and industry. This workforce development center will allow the college to change lives, increase the per capita income of our region of South Carolina, and keep local industry assured of our commitment to meeting their needs for a highly skilled workforce.

$1,781,770- Equipment Request

Denmark Technical College

$4,250,000- Maintenance Request

Explanation of the request:
Renovation of Culinary Arts Lab and Classrooms: Renovation includes a demonstration kitchen, production kitchen, smart classrooms, and office spaces

Renovation of Tutorial/Study Labs: Renovation of tutorial/study labs to ensure academic and student success

Creation of Cybersecurity Lab and Rooms to House Students in the Program: Living and learning space for Cybersecurity students to include a lab and rooms to house students in the program; also includes infrastructure upgrades

$5,500,000- Renovation of Welding Labs- Capital Request

Denmark Technical College is asking for $5 million to redesign and modernize welding labs campus wide. These renovations will enable the institution to prepare students for careers in advanced pipe, robotic and laser welding. These enhanced welding labs will also allow the College to focus on modern welding techniques used by Boeing and nuclear welding techniques that meet the needs of SCANA, Southern Company, Savannah River Site, and Volvo. Denmark Technical College seeks to additionally redesign and modernize the institution's existing nursing lab and to implementing a new simulation lab for the purpose of providing students with hands-on training in a real-life setting

$997,827- Equipment Request

Florence-Darlington Technical College

$12,000,000- Maintenance Request

Explanation of the request:
Building 5000 Renovation (Main Campus): Construction of a brand new Academic and Workforce Development Building, which will serve as the flagship building on campus

Building 200 Renovation (Main Campus): Renovation and adaptation of the 200 Building to create additional labs and faculty offices for the Welding program as well as HVAC and infrastructure upgrades

Campus Infrastructure Reconfigurations (Main Campus): Renovate and reconfigure the traffic flow and all of the student parking lots on the main campus

$5,000,000- Building 5000 Renovation Project – Main Campus- Capital Request

Project Background:
Florence-Darlington Technical College will be constructing the new Academic and Workforce Development Building (1000 Building), State Project H59-6119-CA. This building will be the flagship building on campus and will house a high-tech library/media center (Knowledge Market/Student Success Center), student services offices (Welcome Center/Student Services), and administrative offices for the college.

This Project Request: Building 5000 Renovation – Main Campus
This project is to renovate and adapt the 5000 Building on the main campus of Florence-Darlington Technical College. Once the 1000 building is complete, approximately 23,000 SF of space will be vacated in the existing 5000 building. Focus groups and surveys of the businesses in the Pee Dee demonstrated that what employers want most is a space to send current employees for upskilling, as well as a space that can be consistently used by businesses to interview potential employees. To meet this demand, the vacant 23,000 SF will be used as a Workforce Development Center (WDC). The WDC will include eight new additional state-of-the-art instructional spaces, house the WDC staff, recruitment offices and an independent employer-employee liaison. This

will greatly increase the capacity of FDTC to meet the Pee Dee workforce development needs. The WDC will consolidate and coordinate workforce services with those in the 1000 building.

Built in 1972, the 5000 building also needs restroom upgrades (Code, ADA, LGBT, infrastructure replacement), an additional elevator (ADA and Life Safety), an improved entrance including enclosing stairways and foot bridges (Life Safety), exterior paint, and walkways for safe and efficient pedestrian conveyance.

$3,862,252- Equipment Request

Greenville Technical College

$38,100,000 - Maintenance Request

Explanation of the request:
Renovation of the University Transfer Building: Remodeling/reconfiguring the entire building to bring the College's Student Services Back to the Main Campus

Renovation of the Technical Resource Center: Renovation, reconfiguring, and upgrades to Building 102

Renovation of the Second Floor of Building 603 at the Admissions and Registration Center: Renovation to create classrooms and study areas for students, upgrades to HVAC, lighting, technology, flooring, walls, restroom facilities, and elevator

$29,500,000 - Health Sciences/Arts and Sciences Building- Capital Request

Greenville Technical College's mission is to drive personal and economic growth through learning by giving students the skills they need to succeed in the workplace or to transfer to a four-year college. Outdated space makes it very challenging to provide the education students need and employers require.

Funds are therefore requested for a new Health Sciences Nursing and Arts and Sciences Building to replace two functionally obsolete buildings that are in very poor condition. When current facilities were constructed, enrollment was much lower and fewer academic programs were offered; as a result, lab spaces and classrooms are crowded. Inadequate infrastructure including poor electrical capacity means that these spaces are not adaptable to today's teaching methods, technologies, and equipment. Storage and prep areas are deficient. Faculty office spaces are lacking, requiring shared space that often creates FERPA and instructor/student confidentiality concerns. The buildings were designed in a way that does not allow a portion of the building to be renovated without the entire building being shut down, so any renovation will take the entire building off-line and the collage does not have sufficient classroom space to operate without either of these buildings.

The new building will allow the college to expand programs in Health Sciences, Biological Sciences, and Biotechnology, and create lab space that cannot be added to the current structures. Physical Sciences, Math, and Computer labs will also be included. Some general education classes and required labs for many programs will be offered in this building.

The project will enable the college to offer classes for a biotech manufacturing certificate planned in anticipation of a biotech corridor bringing new companies to the area. Adequate preparation for these opportunities will require state-of-the-art facilities.

An Ultrasound Clinic is offered to the community, allowing Diagnostic Medical Sonography students to supplement classroom education with real life experience. The current facility, however, offers little privacy to families who participate. Expanded space with a configuration that allows for improved privacy would better serve students and the public.

This project will decrease the size of one large parking lot in the area. This parking will be moved to the location of the former Marshal Williams and Information Technologies buildings. This will reduce the number of cars entering the college's Barton Campus from the S. Pleasantburg Rd entrance and will address dead-end safety concerns that currently exist. The project will include a pedestrian bridge that will make the campus more walker friendly, and students will have an easy alternative to driving from one building to another.

The elevator in building 104 creates safety concerns as it is too small for EMS stretchers. As a result, patients must be carried down two or three flights of stairs in an evacuation chair, a danger for both the patient and transporters. Bathrooms in building 120 are not handicapped accessible; instead, those requiring a handicapped facility must go to an adjoining building that is 100% occupied by the charter high school.

Greenville County provides the college with a capital millage that will be used to fund the local match of the project.

$9,279,344- Equipment Request

Horry-Georgetown Technical College

$39,000,000 - Maintenance Request

Explanation of the request:
Grand Strand Renovation: Repurposing and modernization of key academic and student services buildings on the Grand Strand Campus

Conway Renovation (Buildings 500, 600, 700, 800, 900, 1100): Renovation of buildings to provide instructional flexibility and support enrollment growth and expansion

Renovation of Georgetown Building 100: Renovation and modernization of Georgetown Campus' main academic and student services building

$10,000,000 - Repurpose and Modernize Grand Strand Campus Buildings - Capital Request

Horry-Georgetown Technical College (HGTC) requests funding of $10,000,000 to support the repurposing and modernization of key academic and student services buildings on its Grand Strand Campus. The Grand Strand Campus was originally constructed in 1955 as the Myrtle Beach Air Force Base and served in that capacity until it was gifted to HGTC in 1993. Given the original design of the facilities as a military installation, combined with the age of the structures, several buildings are in need of repurposing/upgrading.

HGTC ensures all facilities remain in working order as part of its annual maintenance plan; however, this request is dedicated to fundamentally repurposing, upgrading, and modernizing structures to better support enrollment growth and to accommodate modern instructional methods. Buildings that require upgrades include Building 100 (workforce development), Building 200 (academic and student services), Building 300 (academic and library) and Building 600 (general purpose). Collectively, these buildings incorporate approximately 138,000 square feet and support more than 3,000 students enrolled in 40 programs of study. The scope of work includes:

Converting general purpose space to instructional classrooms and labs, and equipping those spaces with modern furniture, fixtures, and equipment;

Transforming smaller and less efficient classrooms and labs to larger, more flexible instructional spaces;

Converting the existing kitchen, officers lounge, and gymnasium to more practical instructional space;

Improving the IT infrastructure to support new applications/services. Specifically:

Upgrading the inter-campus fiber cabling to current industry standards and to enable 10GB connectivity between buildings.

Acquiring network equipment to support the campus network bandwidth upgrade (10G) between buildings.

Increasing the number of servers and data storage equipment.

Installing signal repeater systems to improve cell phone coverage within existing buildings (for emergency response);

Upgrading all buildings, sidewalks, and parking lots to modern ADA standards;

Expanding and reconfiguring sidewalks and parking lots to better accommodate enrollment growth and vehicular/student traffic;

Modernizing building envelops to improve weatherization, and energy efficiency.

$15,676,450- Equipment Request

Midlands Technical College

$12,000,000 - Maintenance Request

Explanation of the request:
Granby Hall Renovation Project: Complete renovation of Granby Hall building to reconfigure space and upgrade technology in the building

Airport Campus Library Renovation Project: Complete interior renovation and reallocation to improve the functionality of the space for students

Chiller Project: Replacement of building chillers and HVAC systems on multiple campuses

$30,000,000 - Center for QuickJobs Training and Workforce Development- Capital Request

Career readiness of the workforce is the primary objective of the proposed Midlands Technical College (MTC) Center for QuickJobs Training and Workforce Development at the MTC Beltline Campus. The facility's programs will directly target the rapid training of specific workforce skills critically required by employers in the college's service area. This is a compelling regional need due to the ramping up of manufacturing and information technology operations, and the collateral demand for a workforce to sustain and grow these essential employment sectors. In South Carolina, the manufacturing cluster alone pays more than 20 percent of all wages with an average salary in the mid-$50k range. Midlands Technical College's QuickJobs programs offer fast-paced, intensive job training to help the unemployed and underemployed obtain these middle and high skilled jobs that are in constant demand by regional employers. In regard to location, the continuing renovation of the college's only urban campus is critical to higher educational accessibility for lower income and minority students who rely on public transportation. The project will include improving traffic flow and will add needed additional parking on the MTC Beltline Campus. The Center for QuickJobs Training and Workforce Development will concentrate essential instructional areas on the MTC Beltline Campus and enhance the college's ability to offer employment programs and services with twenty-first century applications. Individuals will be able to quickly qualify for good jobs. The Center would replace the Lindau Engineering Technology Building which would eliminate much deferred maintenance and be more financially prudent than renovation.

$2,293,067 - Equipment Request

Northeastern Technical College

$2,000,000 - Maintenance Request

Explanation of the request:
Cheraw Campus Renovations: Enhance security, reconfigure student areas, replace roofing, renovate outdated classrooms to meet current standards and needs

Dillon Campus Renovations: Renovate the Dillon Campus to meet the needs of expanding the Associate Degree in Nursing program

Pageland Campus Renovations: Renovate original building to complement the new 10,000 square foot building that is 100% lab space

$6,000,000 - NETC Technology Center - Dillon- Capital Request

Construction of a 60,000 square-foot pre-engineered instructional facility, which will be used for regional logistical training and other support industries around Dillon and the new inlet port. A building is needed to house specialized logistical training to serve current and future employer training needs. This warehouse-type building will allow for flexible programming offering to meet the workforce needs of high-demand positions of current and future employers of the region. The local county match will be a mix of local industry, county funding, and other sources. The total estimated project cost is $7,500,000 [$6,000,000 state appropriations, $1,500,000 local county match].

$5,915,887 - Equipment Request

Orangeburg-Calhoun Technical College

$10,000,000 - Maintenance Request

Explanation of the request:
Renovation of Nursing and Health Science Building: Renovation of electrical systems, HVAC, and technology

HVAC Replacements/Upgrades to End-of-Life Systems on Multiple Buildings on Campus: Replacement of HVAC systems in multiple buildings with more energy efficient systems

Renovation of Buildings L, M, N: Major renovations to three adjacent buildings serving the advanced manufacturing programs

$8,000,000 - Advanced Manufacturing Building - Capital Request

OCtech is planning for the construction of an Advanced Manufacturing building to support existing and emerging manufacturing careers in Orangeburg and Calhoun counties. According to the most recent Academic/Facilities Master Plan, there is a need for an additional 18,000 – 20,000 square feet of space to support the following academic programs: Electronics Instrumentation Technology, Industrial Maintenance Technology, Mechatronics, and Engineering Graphics Technology. The current space does provide the quantity or the quality of space to adequately train students as manufacturing continues to evolve in our region. These programs not only represent high wage high demand jobs in the current marketplace, but are expected to grow exponentially as companies in the aerospace and automotive sectors make Orangeburg and Calhoun counties their home. The total cost of the project is approximately $12 million, and the college's request is $8 million.

$1,873,201 - Equipment Request

Piedmont Technical College

$6,866,000 - Maintenance Request

Explanation of the request:
Greenwood Campus Renovations: Renovations to roof systems, critical chilled and hot water infrastructure systems, HVAC replacement, parking lot degradation, and ADA accessibility

Renovations to E Building (Greenwood): Renovations will address roofing, asbestos removal, and restructuring space to create classroom and lab space

Building Renovation to Greenwood Campus Conference Center: Modernization of classrooms and upgrading drainage systems to alleviate moisture issues

$12,305,000 - Upstate Center for Advanced Manufacturing- Capital Request

1. Greenwood County's recent Teijin Industries announcement was the largest capital investment announcement this calendar year in South Carolina—a $600 million investment which will result in 200+ jobs in the initial phase of a multiphase project. The Upstate Center for Manufacturing Excellence will support Teijin's training needs, as well as Greenwood County's aggressive economic development plan to bring more employers to the region by creating a state-of-the-art

industrial training space designed to act as a catalyst for greater productivity, innovation and job creation. This project is of strategic importance to Piedmont Technical College's entire seven county service area, the Upstate Manufacturing sector, and to South Carolina as a whole, and will have an immediate impact on the per capita incomes of citizens in the college's service area-currently at $20,355, which is significantly less than the per capita income on the state level of $23,943 as well as the national level of $28,155.

2. The Upstate Center for Manufacturing Excellence will enhance STEM education and interest in STEM-related fields by providing a state-of-the-art facility to grow the region's number of registered apprenticeships, to partner with school districts on STEM-specific dual enrollment programs and to augment new industry recruiting efforts. The approximately 47,000 square foot Upstate Center for Manufacturing Excellence will provide the lab and classroom space necessary to expand academic programs and enrollment in Mechatronics, Welding, Quality Assurance, Machine Tool & CNC Technology in order to provide a ready pipeline of talent in areas that advanced manufacturing companies find difficult to fill. This new space will allow PTC's remaining Industrial and Engineering Technology programs to expand in the college's current space.

3. The new space will allow the college to upgrade current facilities that were designed in the late 70’s and early 80's to better serve the students in safer modern lab spaces. lt will allow the college to combine the industrial programs into one facility designed to meet the needs of the current students as well as future changes in size and scope of equipment. The movement of the facility to a standalone structure will allow the college to relocate a large portion of student parking from the main campus parking lot to the new facility thus alleviating some of the congestion on the main campus.

4. Piedmont Technical College will receive six million dollars in matching funds through the Greenwood County Local Options Sales Tax, and the college does have its share of the twenty percent matching funds earmarked for the project once full funding is acquired.

$2,568,385 - Equipment Request

Spartanburg Community College

$8,482,500 - Maintenance Request

Explanation of the request:
Tyger River Campus BMW Center: Automotive Program Relocation/Renovations: Relocation of growing and expanding automotive programs to renovated building and resurfacing of parking areas

Tyger River Campus BMW Center: HVAC Program Relocation/Renovations: Relocation of growing and expanding HVAC programs to renovated building

Central Campus Powers Building Renovations: Renovations and replacement of HVAC system, interior finish upgrades, and roof system

$16,615,000 - Central Campus Academic/Student Services Classroom Bldg- Capital Request

This is the second phase of a two phase project to construct an academic/student services classroom building. This building will include a 70,000 sq. ft. academic center with Associate of Science (AS) classrooms, a student study area, meeting rooms and conference space. The primary purpose of this facility is to provide science laboratories, biology, chemistry and physics classrooms, distance learning classrooms, advanced composite materials laboratories, testing center and a teaching and learning center, conference space, and a much needed food service operation. With the continued growth of our college transfer programs, using older labs for teaching curriculum intensive sciences are inadequate as existing classrooms were built for technical and vocational training. The college plans to utilize the $5.83M phase I cost as the required match for state funding in this phase.

In order for the college to fulfill its mission, it must be able to insure quality programs, services and facilities. The college currently has no classrooms or labs designed specifically for use by the AS programs. The college's transfer programs require that we have adequate program specific labs and classrooms to accommodate and meet educational requirements. Also, it would support Advanced Composite Materials and Chemical Processing Technology Programs. All existing Central Campus classrooms were built in the 1960's and 1970's for technical & vocational training. This building will be programmed for new science labs, technology labs, math and science (STEM) and would accommodate the 25%general education component of all college curriculums, including certificate and diploma programs.

Based on the College Master Plan of 2012, the planned site for the Academic/Student Services Bldg will become the core of the central campus and would displace a 300 space parking lot and require realignment of campus drives and vehicular traffic patterns. The current core parking area is an unsafe condition for students with traffic flow coming in and going out and students walking through the parking area between buildings during the course of the day. In addition, the primary faculty & staff parking lots are located beyond and adjacent to the core parking area presenting another heavy flow of traffic and hazard through the student travel routes. With this STEM-related classroom building locating in the central area of campus, the parking area would need to be relocated along the outside perimeter of the campus and allow student travel between buildings in an area designed for pedestrian traffic.

The SCC Central Campus is a watershed for not only the campus but as well as surrounding industrial and commercial properties. Local County Planning and DHEC officials have informed the College that any future development of the Central Campus will require Stormwater BMP (Best Management Practice) to include construction of above ground stormwater retention/detention ponds to address current and future stormwater management needs. The campus has experienced significant flooding events during 2013 exceeding the site civil design parameters resulting in parking lots flooding and the creek in the horticulture gardens overflowing its banks and threatening the horticulture teaching greenhouses and gardens. The 2012 Central Campus Master Plan has identified two (2) short-term BMP locations that are needed now and the need to reconstruct the heavily eroded stream flowing through the central campus. The Stormwater BMPs would be required with the construction of the proposed new building and with the rerouting of campus drives and new parking lots.

This project would:

(1) Enhance science and math education by providing a modern science building that will support all College curriculum
(2) Significantly improve traffic flow, student travel and vehicular safety

(3) Include a local match of funds
(4) Address future campus storm water runoff issues

The cost to construct the Academic/Student Services Classroom Bldg is $24,500,000. Costs to relocate and construct 300 parking spaces and realign drives are $750,000 plus $424,000 to address Storm Water Management Retention and Detention. The total estimated cost for this project is $25,674,000.

SCC received a $750,000 State appropriation (Proviso 118.16) which will fund the preliminary site development to include parking relocation and to analyze the utility infrastructure (chilled water supply, electrical power distribution, and fire suppression supply lines) to support a new building. Balance of funds needed to complete the project is $24,924,000.

$9,846,327 - Equipment Request

Technical College of the Lowcountry

$6,250,000 - Maintenance Request

Explanation of the request:
Historic Moor Hall Renovations: Full interior renovation of Moor Hall and modest interior renovation of Building 6 on TCL Beaufort Campus

Building 15 Full Renovation: Interior and exterior remodeling of the Industrial Sciences Building

Building 16 Interior Renovation: Modernization, updating, and repair to the interior of Building 16, includes HVAC systems

$9,000,000 - Regional Workforce Training Center- Capital Request

TCL's proposed Regional Workforce Training Center is a 50,000 square foot, hi-tech diversified manufacturing training center to be located on TCL's New River Campus. The Center will educate and train South Carolinians for jobs today and tomorrow.

South Carolina Department of Commerce has identified diversified manufacturing, construction trades and transportation, distribution and logistics (TDL) as key industry targets for the Lowcountry. Average annual job openings in this industry cluster is 18.4% over the period 2012-2022 (demand). These job projections do NOT include the pending workforce needs of the Jasper Ocean Terminal. The majority of these jobs, up to 67%, require 2-year associate degrees or industry certifications. In SC demand for associate degrees and industry certifications exceed supply. Job growth in the region is outpacing skilled workforce. In 2015, workforce grew by 2.8%. The number of jobs grew by 4%.

The Center supports the South Carolina Department of Commerce goal of building a talent pipeline to support diversified manufacturing in the state's south coast region. The Center will have the capacity to graduate up to 200 skilled workers annually employed in family-sustaining jobs creating a safer, healthier Lowcountry. The Center will help the Lowcountry retain a valuable, and renewable, resource - transitioning military and their dependents. The Center will attract new industry to the region.

The New River Campus is located in one of the fastest growing areas in the state – just east of Interstate 95 in the Hardeeville/Bluffton area of Jasper and Beaufort Counties. Population of Beaufort and Jasper counties is steadily increasing. Since 2010 Beaufort County population has increased by 10.24%. For the same period Jasper County population increased by 11.65%. The region's future job growth over the next ten years is predicted to be 46.00%. (This does not account for job growth as a result of the Jasper Ocean Terminal.)

$1,378,000 - Equipment Request

Tri-County Technical College

$10,000,000 - Maintenance Request

Explanation of the request:
Ruby Hicks Renovation Project: Complete renovation of Ruby Hicks, deemed to be the College's most significant "mission critical" project at this time

$10,000,000 - Ruby Hicks Building Renovations- Capital Request

The Ruby Hicks Administration/Library building is being renovated in conjunction with the construction of the College's Student Success Center (SSC). The library will be moved and re-visioned as a learning commons in the new SSC. The current library space in Ruby Hicks will house our TC Central – One Stop Student Services area. Because of the extent of the renovation to Ruby Hicks, the building must be brought up to compliance with current building code regulations. Consultants, including state engineers, have inspected Ruby Hicks and determined that the building does not meet current building code. Ruby Hicks renovations will include both life safety upgrades and the addition of a central plant to improve heating and cooling efficiencies and future expansion across the Pendleton Campus.

A breakdown of the budget request amount is as follows:

Fire Protection / Fire stops between floors $250,000
Fire Protection / Sprinkler systems $250,000
ADA Compliance - Restrooms $300,000
ADA Compliance - Elevators $200,000
Cooling tower / Chiller / Central plant $6,000,000
Building Envelope code compliance $3,000,000

$2,937,723 - Equipment Request

Trident Technical College

$5,250,000 - Maintenance Request

Explanation of the request:

Renovate Berkeley Campus: Repurposing of the Berkeley Campus to support the training needs of Tier 1 suppliers in the automotive cluster

Replace HVAC, Palmer Campus, Phases 2 and 3: Replacement of 28 year old HVAC system

Repave Roads and Parking, Main Campus, Phase 2: Milling and resurfacing the roadways on Main Campus

$25,600,000 - Renovate Berkeley Campus- Capital Request

Berkeley is the fastest growing county in S.C., and since 2010, the 40th fastest growing county in the U.S. In late 2018, Volvo's Berkeley plant will be the only facility in the world to produce the new model of the S60 sedan. The 35-year-old Berkeley Campus, which is 16 miles from the Volvo site, must be repurposed to help serve the training needs of the Tier 1 suppliers in the automotive cluster. (Tier 2 and 3 suppliers will locate across the state.)

This economic development project will renovate the Berkeley County campus to accommodate advanced manufacturing and to increase flexible classroom space. Approximately 16,000 square feet will be renovated for advanced manufacturing training and for other STEM-related education. Flexible classroom space will be created for economic development functions such as supplier and indirect purchasing outreach events, job fairs by manufacturers and other companies, community workforce information sessions, and career exploration events for students. Additional space will provide high-speed broadband access within a learning resources center.

Local county match funds in the amount of $6,400,000 are pending.

$6,530,031 - Equipment Request

Williamsburg Technical College

$700,000 - Maintenance Request

Explanation of the request:
Renovation of Science Lab and Creation of Additional Nursing Lab for the ADM Program: Renovation of current Science Lab and creation of an additional Nursing Lab for the growing ADM program

Renovation of Office Space to Create a One-stop Space: Renovation and upgrading of current office space to create a one-stop space

Replace Rock Panels on Roofing to Two Main Buildings: Replace deteriorating rock panels on roofing of two main buildings on campus

$20,000,000 - Science and Technology Building (New Construction) - Capital Request

WTC has three main buildings. The first two were built in 1969 and the third in 1985. The buildings are clean, safe and well-maintained but inadequate to serve the growing needs of the college. When the 1985 building was completed, enrollment was 421. The Fall 2015 enrollment was over 750. These numbers do not include an additional 250+ "continuing education" students involved in workforce training programs. The anticipated continued enrollment growth in both general education, continuing education and workforce development programs along with the

emphasis on STEM - related training and the high demand regionally for Allied Health programs are the forces driving the need for a Science and Technology building.

The demand for allied health professionals including EMT, CNA, LPN, RN, Phlebotomists, EKG Techs and Pharmacy Techs has increased exponentially with the anticipated growth and expansion of the Williamsburg Regional Hospital. Also, emphasis on the rural health network including telemedicine clinics creates a demand for additional advanced technology training.

WTC has a successful LPN program with a licensure pass rate of 100% in 2013-14; 96% in 2014-15 and 100% in 2015-16. The State Board of Nursing recently gave approval and preparations have begun to establish an RN program at WTC. With an emphasis on workforce development, QuickJobs training and stackable credentials, instructional space, labs, and specialized equipment is needed to meet the rising demands of the allied health field.

WTC's last building project was in 1985. It has been 30 years since WTC added any new instructional and/or training space to the campus. The requested science/technology building would include updated science labs, allied health labs and classrooms, technology instructional areas, general instruction classrooms, a student resource center for remediation /tutoring and general office space.

$1,678,500 - Equipment Request

York Technical College

$20,652,549 - Maintenance Request

Explanation of the request:
Library/Learning Commons Renovation: Renovation of the library building's mechanical, electrical, and plumbing systems and functions of the building

K-Building Renovation: Convert the building to a mixture of faculty student services, and public safety offices and classroom space

H-Building Renovation: Modernization and renovation of the building that houses the college's administrative staff

$34,400,000 - Health and Human Services Building- Capital Request

The college proposes to build an 81,800 square foot building that would house all of its Health and Human Services programs:

Criminal Justice	Human Services
Practical Nursing	
Dental Hygiene	Medical Assisting
Radiologic Technology	Medical Laboratory Technology
Early Care and Education	Surgical Technology
Exp. Duty Dental Assisting	Nursing

The new facility would include a state-of-the-art day care facility/learning laboratory for the Early Care and Education Program.

Currently the programs are occupying space not specifically designed for health/human services programs, some of which are more than 40 years old. It is cost-prohibitive to update the existing building with the appropriate infrastructure to permit the programs to thrive and grow.

The new facility would include appropriate infrastructure for health/human services programs, as well as learning facilities that mirror the state of the art in health care, in order to provide an improved student experience and ultimately better preparation for the workplace.

The college does not currently have sufficient funds to construct this facility on its own, and is reluctant to borrow the funds because the costs of the debt service would have to be passed along to the students, which the college does not wish to do.

$1,345,944 - Equipment Request