Schuyler Building Action Plan – February 2018

Vision: The Schuyler Building will be the physical embodiment of what it means to be a public research university committed to its role as an inclusive and engaged anchor institution. The College of Engineering and Applied Sciences (CEAS) based in the Schuyler Building will be a brick-and-mortar symbol of UAlbany’s commitment to pursuing academic excellence in a way that promotes opportunity, bolsters the economy, and uplifts the surrounding community by enhancing Albany’s midtown neighborhoods as a place people want to live, learn and work.

Next steps: This plan identifies concrete steps the University can take that are believed to offer the most likely paths to success for securing $50-$60 million needed to renovate the Schuyler Building. These actions are categorized by timeframe and by the responsible University division. In many cases, they will require collaboration among divisions.

To date, the University’s efforts to secure Schuyler Building funding have relied largely on asking the state Legislature for a special capital appropriation in the state budget. With enrollment in the CEAS’s new engineering programs years ahead of schedule, the University’s argument for state investment in the Schuyler Building has never been stronger. Two years of advocacy, however, have yielded two important lessons that will inform the path forward:

1) So long as the finance plan relies exclusively on state money, the University will continue to encounter significant skepticism from the public and private sectors about the project’s viability.

2) We must talk about CEAS and the Schuyler Building as integral components of one, larger vision, and we must emphasize the benefits of this larger vision for more than just the University. The message is not “CEAS and the Schuyler Building are worthy of funding”; it is “CEAS in the Schuyler Building is worthy of funding because of the way they, together, will do great things for the city and region.”

Before outlining action steps, it is useful to summarize the nature of the environment in which our advocacy will unfold.

Opportunities:

- A new SUNY chancellor with a background in engineering
- A new, permanent campus president to serve as the chief messenger on the project
- New academic programs that are exceeding enrollment projections
- A project with a compelling narrative that plays well politically for key audiences
- Engaged members of both the Assembly and Senate majorities
- A chance to unify the community around a project with virtually no public opposition
- A chance for UAlbany to re-assert itself as an engaged anchor institution in the city
- State and local economies projected to experience robust growth in engineering jobs
- A diverse student body that positions UAlbany to be a leader in increasing representation by under-represented groups in STEM fields

Challenges: The short-term challenges to securing capital funding for the building include:
Public skepticism after two years of unsuccessful advocacy
The perception that this project is only good for UAlbany
No identified private sources of funding
Young engineering programs without an established Alumni base for philanthropic support
A lean state budget year (including a proposed $200M cut in SUNY capital funding)
Alumni/donors who generally say they do not want to give to capital projects
Few local corporations likely to make a large philanthropic investment in the project
Public speculation about the future of SUNY Poly distracting from the message/urgency of the Schuyler Building project

In light of these opportunities and challenges, we propose the following action steps as the University’s best chances over the next year to secure Phase 1 funding for the Schuyler Building renovation.

[Remainder of the page intentionally left blank]
Division: Academic [Provost/CEAS]

Three months

**CEAS Academic Partnerships:** Joint enrollment for engineering students with Adirondack Community College. Others under development. These academic partnerships will bolster the case that funding Schuyler helps more than just UAlbany.

*Lead:* Ann Marie Murray, Provost’s office

**K-12 partnerships:** Solidify CEAS’s partnerships with K-12 schools, specifically the City School District of Albany, in hopes of attracting public/private funding with the prospect of establishing a pipeline from these districts to UAlbany. This should include discussions on University in the High School offerings to reduce time to completion and the possibility of high school participation in intro courses facilitated by the proximity of Schuyler to Albany High School.

*Lead:* Dean Boyer, CEAS; Ann Marie Murray, Provost’s Office; Egla Wulfert, College of Arts and Sciences; and Jordan Carleo-Evangelist, Government Relations

**Attract Women and Underrepresented Minorities:** This requires sustained effort with interventions at three levels. Largely, it’s about recruiting, creating and presenting role models for prospective students. UAlbany has the highest combined percentage of under-represented minorities of the four University Centers. A demonstrated plan to support them in pursuit of STEM careers will bolster the case that investing in the Schuyler Building means investing in a University poised to help diversify the STEM workforce. The three intervention levels are:

1. **Elementary school.** Develop K-12 partnerships with an emphasis on reaching female students in middle school to demonstrate engineering as a viable/rewarding career. Our pilot in the City School District of Albany is designed to make in-roads at this level.

2. **Undergraduate level.** Retaining them. Continue our efforts to support students during the critical transition from freshman to sophomore year, including expanding our presence at the Grace Hopper Celebration and, eventually, other meetings serving all underrepresented groups. By sending undergraduate women in computer science and engineering to GHC, we hope they will realize *they are not alone*, and *they can do this.*

3. **Faculty.** Continue efforts to recruit women into our faculty ranks with a special focus on leadership positions. Environmental Engineering, our next in development, is the most popular engineering major for women.

*Lead:* Ann Marie Murray, Provost’s office and Dean Boyer, CEAS

Six months

**Promotional Opportunities:** We have had conversations with miSci, the children’s science museum in Schenectady, regarding CEAS-developed installations. These installations would be developed by CEAS students as part of their capstone design experience – assuming we can identify projects at a suitable technical level.

*Lead:* Dean Boyer, CEAS; Ann Marie Murray, Provost’s office; and Fardin Sanai, Development
Division: Research/Economic Development

Three months

Amazon: Amazon promised the Center for Economic Growth (CEG) a feedback meeting on its HQ2 application. As a CEG member, we could pitch Amazon at the feedback meeting for a “consolation” investment in expanding and diversifying the engineering talent pipeline in the region. We could ask University Council members to join us in making this pitch.

GE: Even with rumors of a breakup of the company, GE remains the largest manufacturer in the region and a high-demand employer for engineering talent given its global R&D Center is in Niskayuna. Arrange a meeting with Chris Horne, GE spokeswoman to lay a foundation.

Global Foundries: As the second-largest manufacturer in the region, Global Foundries’ model is to provide staff and in-kind resources to assist projects versus large philanthropic gifts. We could request equipment like those earmarked for GF’s new regional training facility at Luther Forest.

Lead: Matt Grattan, Research and Nick DeCaprio, Government Relations

Upstate Revitalization Initiative (URI): There is $50M in funding available to the Capital region and only three projects have been identified. The challenge: All three are in Albany. We will explore this funding and its potential for Schuyler with Empire State Development.

Lead: Matt Grattan, Research and Nick DeCaprio, Government Relations

Downtown Revitalization Initiative (DRI): Talk to Mayor Sheehan about modifying the DRI footprint to align with more of a “T” shape that could incorporate Schuyler in Albany’s application for the $10M DRI grant. Because Glens Falls and Hudson won the last two, Albany has a good chance this year. Any DRI funding would likely be for parking or easements but would still be helpful in showing outside resources beyond the SUNY Construction Fund. University Council members could join President Rodriguez in meeting with the Mayor.

Lead: Matt Grattan, Research and Jordan Carleo-Evangelist, Government Relations

CREDC Recaptured Funds: There is approximately $12.5M available returned by the original awardees. The funds are usually awarded to previous submittals with transformational implications. In addition to the CREDC, URI and DRI funding, we will discuss with Empire State Development the possibility of any of these funds being directed to the Schuyler project.

Lead: Matt Grattan, Research and Nick DeCaprio, Government Relations

Six months

CREDC Consolidated Funding Application (CFA) – Decide no later than May 1 whether to re-apply for capital through the 2018 REDC competition. This must include a better definition of Phase 1 of the project and discussion of whether the University is willing/able to post the required match. Priority should be placed on identifying non-public matching dollars.

Lead: Matt Grattan, Research; Nick DeCaprio/JCE, Government Relations; and Todd Foreman, Finance and Administration
Division: Advancement [Development/Alumni]

Three months

Donor Preparation: Prepare development officers to cultivate and solicit individual prospective donors for gifts to the Schuyler Project.

- Adapt materials produced by Government Relations/Communications into a case for support.
- Develop a menu of naming opportunities in Schuyler.
- Invite Dean Boyer to meeting of major gifts team to describe project’s importance, impact, and funding needs, and to update team on CEAS’s progress (enrollment, faculty appointments, programs, etc.).
- Research prospective donors to project.
- Accelerate search for gift officer assigned to CEAS.
- Seek advice and buy-in on project from key University stakeholders.

Lead: Fardin Sanai, Development

Foundations: Research, identify, and begin initial outreach to potential sources of foundation/corporate funding.

Lead: Fardin Sanai, Development

Six months

Donor meetings: Conduct qualifying meetings with individual prospective donors. Development officers to partner with Dean Boyer on meetings with prospects who merit the Dean’s attention.

Foundation meetings: Conduct initial outreach and begin submitting proposals to potential foundation/corporate donors. Foundation/Corporate Relations staff to partner with Dean Boyer where warranted.

Cultivation Opportunities: Position the project as core agenda item when President Rodríguez meets individually with prospects and speaks at intimate campaign cultivation events.

Lead: Fardin Sanai, Development

Twelve months

Gift Request: Solicit individual prospects for gifts to project.

Naming Opportunities: Recognize donors of significant gift by offering naming opportunities.

Gift Promotion: Announce noteworthy gifts to publicize project and generate/sustain momentum.

Lead: Fardin Sanai, Development
Division: Public Affairs [Government Relations & Communications]

Three months

$20M capital request: For the third year in a row, the University’s top legislative priority will be a $20M carve out of capital money in the enacted state budget specifically for the Schuyler Building project. The budget deadline is March 31, 2018. Ask University Council, UAlbany Foundation and alums to call, email or meet with legislators in support of the capital request.

*Lead:* Sheila Seery, Government Relations

Mid-City Corridor Study: Continue to coordinate with the city to finalize and release the Mid-City Corridor Study, which will re-focus public attention on the midtown corridor between Alumni Quad and the Downtown Campus. Pushing for a release prior to March 31.

*Lead:* Jordan Carlo-Evangelist, Government Relations and John Giarrusso, Facilities with assistance from Communications

Albany Roundtable: Make the “CEAS in Schuyler” pitch the centerpiece of Dr. Rodriguez’s March 14 remarks to the Albany Roundtable and work with Development and the University Council to encourage attendance by key area influencers.

*Lead:* Alice Oldfather, President’s Office; Jordan Carlo-Evangelist, Government Relations; and Fardin Sanai, Development

NY SUNY 2020 Round 6: Gov. Cuomo’s proposed 2018-19 budget contains language that would allow at least a portion of the $55 million appropriated for SUNY 2020 Round 6 (in 2016) to be used for existing 2020 project at UB and Stony Brook. Monitoring whether some of this money could also be allocated to UAlbany – either for ETEC or Schuyler. Request support letters from University Council, UAlbany Foundation, UAlbany Alumni Board and community and business leaders.

*Lead:* Sheila Seery, Government Relations

Promotional (Media) Opportunities: Launch a media roadshow with president, dean, university council members and city officials to discuss outcomes of corridor study (WAMC, Capital Tonight, Times Union editorial board, etc.); create student and faculty promotional vignettes for the web site and social media; support media attention for various chamber and/or speaking opportunities for dean and key faculty; generate more engineering stories (need in the region; great students and/or faculty, etc.) and utilize the hashtag #engineeringopportunity to promote all of the above.

*Lead:* Kristin Marshall, Communications and Marketing and Jordan Carlo-Evangelist, Government Relations

Six months

NY SUNY 2020 Round 7: $55 million for Round 7 of NY SUNY 2020 was appropriated in 2017, but no RFP has been issued by SUNY. If/when this RFP issued, the University apply for funding for
Schuyler. Previously, the SUNY 2020 target for this project was $10M (assuming a 1-1 match requirement).

*Lead:* Jordan Carleo-Evangelist, Government Relations; Ann Marie Murray, Academic Affairs; Matt Grattan, Research; and John Giarrusso, Facilities
List of Appendices

1. Schuyler Building Facilities Focused Information
2. Schuyler Capital Upgrade Cost Estimates and Work to Date
3. New York Department of Labor Engineering Long-term Occupational Projects
4. Timelines for State Education Department (SED) Degree Program Approvals
5. CEAS Student Demographics
6. CEAS Ethnicity, by program
7. CEAS Academic Partnerships
8. Efforts to Attract Women and Underrepresented Minorities to CEAS
9. Current demographics of CEAS faculty
10. CEAS Outreach to Local Schools
11. History of Schuyler Advocacy
12. Schuyler Capital Pitch 2018
13. Schuyler Elevator Speech
Capital Campaign Action Plan
SCHUYLER BUILDING FACILITIES FOCUSED INFORMATION
February 9, 2018

GENERAL “SCHUYLER” BUILDING FACTS
- 141 Western Avenue, Albany NY
- 2.7 acres of land.
- 127,000 gross square feet.
- Three stories, plus occupiable basement. Also, have subbasement and penthouse mechanical spaces.
- Steel frame structure with terracotta and limestone exterior.
- Large auditorium/assembly space. Currently at 1,245 seats, but based on current concept design, capacity would be reduced to 864 seats for modern building code and amenities reasons. Would make this space the largest assembly space in UAlbany inventory.

WHY CAN’T WE OCCUPY IT NOW?
- The building does not have the code-required accessible (i.e., no elevators) and fire safety systems to enable occupancy.
- When purchased, any “grandfathered” allowances for occupancy were no longer valid as the ownership and code classification for the building changed.
- The University could indeed invest in the minimum level of code-required upgrades to provide occupancy, but the configuration and condition of the spaces (intended for primary and secondary school use) would not meet University standards and needs for academic, research or office use.

WHY DID UALBANY PURCHASE SCHUYLER?
- The acquisition of Schuyler was (and remains) a pragmatic long-term strategic initiative.
- The University has sought this building for space expansion needs since as early as 1939, maybe earlier.
- The primary reason is that Schuyler sits on the same block as the UAlbany downtown campus and borders the western portion of the Downtown Campus Quad.
- It was constructed in 1912 as the then state-of-the-art high school only steps away from UAlbany downtown campus buildings that pre-date it (Husted, Draper, and Hawley are circa-1909).
- City of Albany voters passed a resolution in May 2012 to authorize sale. UAlbany purchased for $2M in 2013.
- Acquisition of building was approved by University Council (May 2012?), NYS Division of the Budget (June 2012), SUNY Board of Trustees (September 2012), NYS Attorney General (July 2013), and NYS Comptroller (October 2013).
- By acquiring it, UAlbany expanded its downtown campus space by 46 percent and acreage by 33 percent.

WHAT IS THE INTENDED USE FOR THE BUILDING?
- The location of Schuyler, adjacent to existing maintenance and operations staff and shared core facilities such as parking, libraries, and dining, obviously make it an ideal building for expanded UAlbany academic and research use.
- At the time of acquisition, prior to the creation of the College of Engineering and Applied Sciences (CEAS), Schuyler was/is envisioned as a key component of necessary space expansion to enable enrollment growth, any number of program initiatives, and a real need for renovation swing space.
• More specifically, the UAlbany Facilities Master Plan (2012) assumed that the Schuyler Building would be renovated to enable enrollment growth and the sequential renovation of the uptown and downtown campus buildings over a 30-40 year horizon.

• The first envisioned occupants of Schuyler, based on the 2012 Facilities Master Plan, were the School of Social Welfare (to vacate Richardson for renovation) and relocation of selected Uptown departments to Downtown (to enable Uptown Podium renovation).

• Since 2012, with the creation of CEAS and its nearer term need for space, Schuyler is now intended to house selected departments within Engineering (electrical engineering and computer engineering) along with the Dean’s Office.

• CEAS is currently scattered across numerous buildings on the Uptown and Downtown campuses. Schuyler is not large enough to accommodate all the outyear needs of the College nor would it be capable, under current design considerations, to service the wet lab and venting requirements of Environmental and Sustainable Engineering that will instead be housed in the appropriate sciences buildings on the Uptown campus.

• Other uses in the future would be to allow spaces such as the auditorium to be used by University schools and operations to hold University programs as well as use by civic and neighborhood groups.

WHAT IS THE ESTIMATED COST FOR RENOVATION?

• The project costs for a complete gut renovation, including full design services, construction, equipment, and site upgrades are currently estimated at approximately $60M.

• Portions of this effort are already funded, including approximately $4M in design services and $8M for completed interim boiler work and ongoing building envelope work, including new roof, windows, and exterior masonry restoration (currently underway).

• Although more costly than a complete gut renovation project interior renovation and fit out can be phased, with a notional +/-$20M for the first phase.

IS THIS A MORE EXPENSIVE, HISTORIC RENOVATION?

• Generally, no.

• While Schuyler is not on the historic register, given its age, any construction nonetheless requires approval of the NYS Historic Preservation Office and selected building features, such as ornamental handrails, monumental stairs, and herringbone ceiling tile, will be targeted for restoration where feasible. These considerations are incorporated into the current estimates.

• The State of New York project cost (design, construction, equipment, soft costs, etc.) per square foot for renovation of Schuyler, based on aggregate estimates, is roughly $500/sf. Building 25 on the Uptown Campus (constructed in 1968) was gut renovated in 2017 at an actual cost of $497/sf; and the state of the art new construction ETEC building on a vacant lot is roughly $680/sf.

• The condition of Schuyler, with its quality of materials, high ceilings, and open floor plan, provide a solid base in which to install renovations and upgrades.

WHAT IS THE STATUS OF FACILITIES UPGRADES FOR SCHUYLER?

• Programming and design services have been underway for the total gut renovation and occupancy of the building.

• The design work has been segmented in recognition of funding availability.

• Roof replacement (complete) and exterior repair (underway) have proceeded through construction implementation.

• Currently, the design is considering phased interior renovations for occupancy, in notional +/-$20M components.

• If funded, work on the first $20M interior phase could begin as early as 2019 for 2020-21 first phase occupancy. Please note that occupants at the completion of the first phase will endure the noise and disruption associated with subsequent renovation phases.
WHAT ARE THE RENOVATION AND PHASING PLANS FOR SCHUYLER?

- The Schuyler building runs the length of a city block with two wings separated by a central auditorium.
- The phasing plans are focused on completing the building in thirds, one wing at a time with the auditorium as a stand-alone project given its scale, roughly $20M each in cost.
- The first phase for interior renovation is assumed to be the south wing, or Western Avenue side. Mechanical and electrical work, including elevators, would need to be installed as well as site work and entries. In addition, required fire safety systems would need to installed in the unoccupied areas.
- Design, however, is still in development, so cost refinements and occupancy plans will continue to be refined in the coming months.

WHERE DOES THE SCHUYLER $20M FIT WITHIN UALBANY CAPITAL PRIORITIES?

- Schuyler is UAlbany highest priority for targeted new capital funding as it provides the first meaningful phase for renovation of a currently unoccupied University asset, provides a permanent location for our rapidly expanding, but currently scattered, engineering programs, helps meet program growth and renovation surge space needs, and advances the University’s community engagement objectives.
- Schuyler is also a priority because it is the most advanced of all of the University’s building renovation designs and is the first of those that will be ready to go to construction bid.
- That said, the University has a facilities renewal and backlog need well in excess of $1 billion and many competing demands.
- Annual NYS capital funding for UAlbany is dependent on enacted State budgets, but ranges from approximately $10M to $30M per year and is first dedicated to high priority health and safety needs (fire protection, structural, etc.), core utilities work (electrical infrastructure, HVAC, etc.), and mission critical matters (classrooms).
- Stand-alone building renovations are inherently costly. The University has five in design, Schuyler, the Lecture Centers, and three that have recently commenced: Physical Education, Building 35 (Earth Sciences), and Building 30 (Education), each of which will range from $25M to $45M in project costs.
- All of these renovations are necessary to ensure that University assets remain in good condition and that a viable long-term cyclical renewal plan is followed. Failure to do so imperils future occupancy of the University’s built environment that is assumed vibrant and functional into perpetuity.

CONTINGENCY AND ALTERNATIVE PLANS FOR EXPLORATION

- The Schuyler acquisition is a strategic initiative; and given limited financing and funding challenges, the renovation will necessarily be implemented in phases.
- However, if a large +/-$20M new source of funds continues to be delayed, then several other options can be explored.
- Perhaps the University can refocus the renovation into a greater number of phases rather than the three-phase concept (describe above) and use annual capital funds, in smaller increments, to implement the plan.
- On the other side of the spectrum, perhaps the University can delay all capital work for some period of years and “build a bank” to finance the larger $20M amount.
- Maybe a sale and leaseback arrangement can be fashioned with a private developer to construct the upgrades, requiring special legislation to enable as well as ongoing operating dollars to afford the lease terms.
- Perhaps the University could consider conversion of the building to student housing, utilizing residence hall bonding, burdening student room rates with the costs, and likely upsetting the plans for nearby Alumni Quad (see below).
ARE THERE PLANS TO UPGRADE ALUMNI QUAD AND HOW DO THEY FIT WITH SCHUYLER?

- The University is currently in the design phase for a significant upgrade to Alumni Quad with an estimated cost of some $50M.
- Alumni Quad is seen as a permanent component of UAlbany residential space, providing some 800 beds of UAlbany’s 7,700-bed inventory, hence the need to invest in this important University asset.
- Based on a 2016 feasibility and needs analysis, the University plans to construct a new, stand-alone kitchen, dining, and recreation building on the quad. The Plan also encompasses major construction to either raze and replace Waterbury Hall (340 beds) or construct a new building.
- Concept designs are still being formulated for University review, but construction could begin as early as 2019.
- Alumni and Schuyler are only 2 city blocks away from each other (1/3 mile); and given the proximity, can be linked programmatically.
- Housing can, and should, be marketed to those students enrolled in Engineering programs; creating a vibrant, walkable downtown experience for not only University students but for the City of Albany residents.
- With this in mind, the City of Albany and UAlbany partnered in 2016 to study this area, the “Mid-City Corridor”, roughly from the UAlbany Downtown Campus to Alumni Quad and the adjacent blocks.

WHAT’S THE STATUS OF THE “MID-CITY CORRIDOR STUDY”?

- Schuyler and Alumni Quad are important and meaningful as stand-alone initiatives, but the sum of these efforts and investments will have a far greater collective impact on this challenged downtown Albany area. Hence this study.
- As of February 7, 2018, the Corridor Study document is still in draft with City of Albany review. The University has provided comments through various drafts and revisions and is awaiting City of Albany direction on how and when to publicly release.
- The Corridor Study’s recommendation would have the City of Albany devote resources to improve lighting and safety in this area along with improved building code enforcement, modifications to increase street parking, and exploration of economic development incentives.
- UAlbany would commit to continued development and improvements to Schuyler and Alumni Quad, improve lighting and street-level attractiveness on its property, and to cooperate and coordinate with the City on economic development and home-ownership incentives.
- The Capital District Transportation Authority (CDTA) is also a major stakeholder in this corridor, planning on investing its own funds to provide upgraded bus stops and enhanced services, key to addressing the University’s multi-modal transportation plans.

WHY IS IT CALLED “SCHUYLER”?

- At the time of UAlbany acquisition, the Albany City School District used this name as it was then used for surge space for their “Philip Schuyler Elementary School”. All School District and NYS purchase and transaction documents referred to it as such.
- It can be called the “Former Albany High School” or the “Future College of Engineering Building”, but Schuyler is most commonly used of late.
- Note that UAlbany has a Dutch Quad residential building already named “Schuyler”.

4
### Capital Campaign Action Plan

**SCHUYLER CAPITAL UPGRADE COST ESTIMATES AND WORK TO DATE**

February 22, 2018

<table>
<thead>
<tr>
<th>SCOPE</th>
<th>WHEN</th>
<th>COST: ACTUAL/ESTIMATE</th>
<th>FUNDED AMOUNT</th>
<th>REMAINING NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquisition of building and land</td>
<td>October 2013</td>
<td>$2,000,000 (ACTUAL)</td>
<td>$2,000,000</td>
<td>------</td>
</tr>
<tr>
<td>Baseline reliability work: remove/remediate old oil tanks and boiler; provide reliable steam heating, basic mechanical repairs and fire safety system</td>
<td>Fall 2013 - Summer 2014</td>
<td>$1,388,000 (ACTUAL)</td>
<td>$1,388,000</td>
<td>------</td>
</tr>
<tr>
<td>Roof replacement</td>
<td>Summer-Fall 2015</td>
<td>$1,481,000 (ACTUAL)</td>
<td>$1,481,000</td>
<td>------</td>
</tr>
<tr>
<td>Selected window replacement and exterior masonry repairs and restoration</td>
<td>Currently underway</td>
<td>$5,875,000 (BID/ESTIMATE)</td>
<td>$5,875,000</td>
<td>TBD</td>
</tr>
<tr>
<td>Full gut renovation, less exterior work underway</td>
<td>As early as Fall 2019 bid</td>
<td>$60,000,000 (ESTIMATE)</td>
<td>$4,938,000 (PLANNING &amp; DESIGN SVCES)</td>
<td>$55,000,000*</td>
</tr>
</tbody>
</table>

*"Remaining Need" for a future full gut renovation will ultimately be based on funding availability, phasing/scope plan, and duration of work, factoring-in inflation, staging, partial building occupancy considerations, etc. Given said unknowns, $55M has been discussed generally by the planning and design team as unfunded need. Detailed schematic design cost estimates for the full gut renovation, however, are expected by May 2018.*
Attachment 3

Engineering Related Workforce Needs and Industry Trends

The table below outlines the 2014-2024 Long Term Occupational Projections for Engineers in all of New York State. In summary, the table below confirms what we already know in that the demand for engineers continues to be strong in this state and that these jobs are well paying. In the overall category, the table shows that 2,580 projected job openings a year for engineers will be available. With that type of demand, the need for additional programs, specifically ones that provide access to diverse populations at affordable tuition rates without sacrificing the quality of the education are badly needed.

NYSDOL Engineering Long Term Occupational Projections for all of New York State

<table>
<thead>
<tr>
<th>Title</th>
<th>Employment 2014</th>
<th>Employment 2024</th>
<th>Change</th>
<th>Annual Average Openings</th>
<th>Annual Wages ($) - 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2014</td>
<td>2024</td>
<td>Net</td>
<td>Percent</td>
<td>Total</td>
</tr>
<tr>
<td>Engineers</td>
<td>64,190</td>
<td>72,430</td>
<td>8,240</td>
<td>12.8%</td>
<td>2,580</td>
</tr>
<tr>
<td>Aerospace Engineers</td>
<td>640</td>
<td>690</td>
<td>50</td>
<td>7.8%</td>
<td>20</td>
</tr>
<tr>
<td>Biomedical Engineers</td>
<td>750</td>
<td>1,540</td>
<td>790</td>
<td>10.6%</td>
<td>59</td>
</tr>
<tr>
<td>Chemical Engineers</td>
<td>1,330</td>
<td>1,630</td>
<td>300</td>
<td>7.5%</td>
<td>60</td>
</tr>
<tr>
<td>Civil Engineers</td>
<td>14,940</td>
<td>17,520</td>
<td>2,580</td>
<td>17.3%</td>
<td>700</td>
</tr>
<tr>
<td>Computer Hardware Engineers</td>
<td>1,350</td>
<td>1,470</td>
<td>120</td>
<td>8.9%</td>
<td>40</td>
</tr>
<tr>
<td>Electrical Engineers</td>
<td>11,450</td>
<td>12,590</td>
<td>1,140</td>
<td>16.0%</td>
<td>370</td>
</tr>
<tr>
<td>Electronics Engineers, Except Computer</td>
<td>4,060</td>
<td>4,290</td>
<td>230</td>
<td>4.7%</td>
<td>110</td>
</tr>
<tr>
<td>Environmental Engineers</td>
<td>3,430</td>
<td>4,140</td>
<td>710</td>
<td>20.7%</td>
<td>170</td>
</tr>
<tr>
<td>Health and Safety Engineers, Except Mining</td>
<td>1,560</td>
<td>1,660</td>
<td>100</td>
<td>6.2%</td>
<td>80</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>8,600</td>
<td>9,450</td>
<td>850</td>
<td>9.9%</td>
<td>340</td>
</tr>
<tr>
<td>Materials Engineers</td>
<td>1,590</td>
<td>1,870</td>
<td>280</td>
<td>17.5%</td>
<td>80</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td>10,520</td>
<td>11,770</td>
<td>1,250</td>
<td>11.9%</td>
<td>450</td>
</tr>
<tr>
<td>Nuclear Engineers</td>
<td>700</td>
<td>680</td>
<td>20</td>
<td>2.9%</td>
<td>20</td>
</tr>
<tr>
<td>Engineers, All Other</td>
<td>2,960</td>
<td>3,440</td>
<td>480</td>
<td>16.2%</td>
<td>110</td>
</tr>
</tbody>
</table>
Attachment 4

Timelines for SED Degree Program Approvals

These are our current best estimates, but the timing for programs beyond Environmental and Sustainable Engineering are somewhat speculative as we have yet to recruit the faculty and stand up the departments.

- Computer Science
  - BS: Exists (legacy)
  - MS: Exists (legacy)
  - PhD: Exists (legacy)
- Electrical and Computer Engineering
  - BS in Computer Engineering: Exists, launched F2016
  - MS in Electrical and Computer Engineering: In review at SED, expected launch 2018-19 Academic Year
  - PhD in Electrical and Computer Engineering: In review at SED, expected launch 2018-19 Academic Year
  - BS in Electrical and Computer Engineering: In SUNY review, external reviewers visit 2/15, expected launch S2019
- Environmental and Sustainable Engineering
  - BS: In SUNY review, external reviewers visit 2/20, expected launch S2019
  - MS: aiming for S2020 launch
  - PhD: aiming for S2020 launch
- Bioengineering (no faculty yet)
  - BS: aiming for F2020 launch
  - MS: aiming for S2022 launch
  - PhD: aiming for S2022 launch
- Mechanical Engineering
  - BS: aiming for F2021 launch
  - MS: aiming for S2023 launch
  - PhD: aiming for S2023 launch
- Industrial and Systems Engineering
  - BS: aiming for F2022 launch
  - MS: aiming for S2024 launch
  - PhD: aiming for S2024 launch
Attachment 5

CEAS Student Demographics

Gender and Residency, by program. At present, Electrical and Computer Engineering (ECE) has only an undergraduate program. MS and PhD programs are under review at the NYS Department of Education now. Environmental and Sustainable Engineering’s undergraduate program is in SUNY review.

<table>
<thead>
<tr>
<th>Program</th>
<th>Enrollment</th>
<th>Gender</th>
<th>Residency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>99</td>
<td>93%</td>
<td>7%</td>
</tr>
<tr>
<td>Computer Science Undergraduate</td>
<td>585</td>
<td>85%</td>
<td>15%</td>
</tr>
<tr>
<td>Computer Science Masters</td>
<td>227</td>
<td>71%</td>
<td>29%</td>
</tr>
<tr>
<td>Computer Science Doctoral</td>
<td>62</td>
<td>74%</td>
<td>26%</td>
</tr>
<tr>
<td><strong>COLLEGE TOTALS</strong></td>
<td><strong>973</strong></td>
<td><strong>82%</strong></td>
<td><strong>18%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Enrollment</th>
<th>Gender</th>
<th>Residency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>44</td>
<td>95%</td>
<td>5%</td>
</tr>
<tr>
<td>Computer Science Undergraduate</td>
<td>135</td>
<td>87%</td>
<td>13%</td>
</tr>
</tbody>
</table>
Attachment 6

Ethnicity, by program

At present, Electrical and Computer Engineering (ECE) has only an undergraduate program. MS and PhD programs are under review at the NYS Department of Education now. Environmental and Sustainable Engineering’s undergraduate program is in SUNY review.

<table>
<thead>
<tr>
<th>Program</th>
<th>ECE UGrad</th>
<th>CS UGrad</th>
<th>CS Masters</th>
<th>CS Doctoral</th>
<th>UGrad Total</th>
<th>Grad Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian, non-Hispanic</td>
<td>19.2%</td>
<td>17.9%</td>
<td>2.2%</td>
<td>3.2%</td>
<td>18.1%</td>
<td>2.4%</td>
</tr>
<tr>
<td>African American</td>
<td>20.2%</td>
<td>13.8%</td>
<td>0%</td>
<td>1.6%</td>
<td>14.8%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Latino</td>
<td>11.1%</td>
<td>10.8%</td>
<td>0.4%</td>
<td>1.6%</td>
<td>10.8%</td>
<td>0.7%</td>
</tr>
<tr>
<td>Non-Resident Alien</td>
<td>8.1%</td>
<td>12.6%</td>
<td>93%</td>
<td>75.8%</td>
<td>12%</td>
<td>89.3%</td>
</tr>
<tr>
<td>Unknown Race, Ethnicity</td>
<td>6.1%</td>
<td>3.1%</td>
<td>0.9%</td>
<td>4.8%</td>
<td>3.5%</td>
<td>1.7%</td>
</tr>
<tr>
<td>White, non-Hispanic</td>
<td>35.4%</td>
<td>39.3%</td>
<td>3.5%</td>
<td>11.3%</td>
<td>38.7%</td>
<td>5.2%</td>
</tr>
<tr>
<td>Hawaiian-Pacific Islander</td>
<td>0%</td>
<td>0.3%</td>
<td>0%</td>
<td>0%</td>
<td>0.3%</td>
<td>0%</td>
</tr>
<tr>
<td>Two or more races, non-Hispanic</td>
<td>0%</td>
<td>2.1%</td>
<td>0%</td>
<td>1.6%</td>
<td>1.8%</td>
<td>0.3%</td>
</tr>
</tbody>
</table>
CEAS Academic Partnerships

1. Community Colleges:
   o Letters of support outlining collaborative aspirations with CEAS from Hudson Valley Community College, Adirondack Community College and Columbia-Greene Community College.
   o Articulation Agreements in place for Engineering and Computer Science with Adirondack, Dutchess, Fulton-Montgomery, Hudson Valley, and Schenectady.
   o Joint enrollment for engineering students with Adirondack Community College. Others under development.

2. Research Institutions:
   o Rensselaer Polytechnic Institute: Professor Hany Elgala’s collaboration with RPI on the NSF Engineering Research Center on Lighting Enabled Systems and Applications.
   o Environmental Science and Forestry: MOU establishing shared curriculum delivery, research collaboration, and international programs with CEAS’s Environmental and Sustainable Engineering Department
   o MIT: Student presentation at the MIT Undergraduate Research Conference

3. International:
   o Partnership with Chongqing, China. The partnership will allow students to obtain degrees in computer science and software engineering with faculty and student opportunities for internships, research and project engagement with the University.

4. High School Partners
   o Discussions on Universe in the High School offerings to reduce time to completion for local students.
   o Consideration of early college high school participation in introductory courses facilitated by the proximity of Schuyler to Albany High School
Efforts to Attract Women and Underrepresented Minorities

- This year’s Bunshaft Lecture speaker was Dr. Wendi Heinzelman, Dean of Engineering and Applied Sciences at the University of Rochester. She spoke on “Inspiring the Next Generation of Leaders to Make the World Ever Better,” which addressed, among other things, the roles of women and underrepresented groups in the engineering sciences.

- In April, Professor Betty Lise Anderson of The Ohio State University Department of Electrical and Computer Engineering visited and led us in a pilot project to introduce children in an inner city school (6th graders at Hackett Middle School) to engineering. The kids received a level-appropriate lecture on acoustics and electromagnetics (yes, it’s possible) and built their own working speakers from $1.00 worth of parts. They all got to keep their speakers. [This also appears under outreach to local schools.]

- With assistance from CS alumna Lori Trezza, CEAS sent eight women students, two women faculty members, and a woman staff member (UG advisor) to the 2017 Grace Hopper Celebration (Conference) in Orlando. GHC is the world’s largest annual gathering of women in computer science and engineering (and related fields), attracting some 18,000 attendees. We were platinum sponsors, providing us with a booth from which to promote the College. This the largest contingent from UAlbany ever to attend GHC, and the first time we've ever been a sponsor at any level.
CEAS Faculty Demographics:

- Of 18 faculty members (16 T/T TT, 2 L) hired since July 2015, eight (7 T/T TT, 1L) are women. One of the TT women is black.
- Of our three current departments, one Chair (Environmental and Sustainable Engineering) is a woman.
- The leading candidate for the next permanent Chair of Computer Science (in negotiation) is a woman.
Attachment 10

CEAS Outreach to Local Schools

- In April, Professor Betty Lise Anderson of The Ohio State University Department of Electrical and Computer Engineering visited and led us in a pilot project to introduce children in an inner city school (6th graders at Hackett Middle School) to engineering. The kids received a level-appropriate lecture on acoustics and electromagnetics (yes, it’s possible) and built their own working speakers from $1.00 worth of parts. They all got to keep their speakers. [This also appears under efforts to attract women and underrepresented minorities.]
Attachment 11

Snapshot of Schuyler Building Advocacy

Social Media Exposure – 20 tweets from @UAlbanyGovRel February-March 2017

Support Letters –

- January 13, 2017 – NYS Parks, Recreation, and Historic Preservation Historic Site Restoration Coordinator Weston Davey
- February 20, 2017 – Global Foundries Mike Russo - Director & Corporate Lead
- February 23, 2017 – Albany Mayor Kathy Sheehan
- February 28, 2017 – Historic Albany Foundation Executive Director Susan Herlands Holland
- March 6, 2017 – City School District of Albany Interim Superintendent Kimberly Young Wilkins
- March 13, 2017 – Albany County Executive Daniel P. McCoy
- March 14, 2017 – Kitware Inc. Senior Director of Computer Visions Anthony Hoogs
- March 16, 2017 – City of Albany Council Member 10th Ward Leah Golby
- March 21, 2017 – Columbia Greene Community College President James R. Campion
- March 22, 2017 – Dassault Systems Americas Corp. Senior Vice President Al Bunshaft
- March 24, 2017 – Assembly members Patricia Fahy, John McDonald, Phil Steck
- March 26, 2017 – Walter L. Robb – Times Union
- March 27, 2017 – Albany City Councilman Judd Krasher
- March 29, 2017 – SUNY Adirondack Vice President for Academic Affairs John E. Jablonski
- April 11, 2017 – Senator George A. Amedore, Jr.
- Pine Hills Neighborhood Association President Virginia Hammer
- Central BID Executive Director Anthony Capece

Events –

- October 2015 –
  - Oct 1 - Applied for $5 million in Round 4 of the NYSUNY2020 Challenge Grant
  - NOT AWARDED
  - Oct 30 – Albany Business Review, “Programs, physical location under development for University at Albany engineering school”
- December 2015 –
  - Times Union article on UAlbany acquiring Schuyler and undertaking $59M renovation
- February 2016 –
Meetings with community – Albany Council members Leah Golby, Judd Krasher, and Historic Albany Foundation Director Susan Holland and Rev. Sam Trumbore, First Unitarian Universalist Society of Albany
Feb 16 – Project overview and Fact Sheet
Press release “Capital Region Leaders Unite Behind UAlbany’s College of Engineering and Applied Sciences”
Call to Action videos
February 23, 2016 - Press Conference in Schuyler with picture in the front of Schuyler,
Feb 19 – Meeting with Sarah Reginelli, Executive Director, Capitalize Albany
Feb 22 – Media Advisory, fact sheet
Feb 24 – Press conference in Schuyler building on front page of Times Union

March 2016 –
March 8 – Met with Sen. LaValle, Assembly Higher Education Chair, Deborah Glick, Assembly members Angelo Santabarbara and Carrie Woerner and Assembly Higher Education Committee Director, Charles LeDuc
March 8 – Washington Tavern Alumni event (Cong. Tonko attended)
March 9 – Joe Bonilla presser – Business owners, entrepreneurs voice support for UAlbany’s new engineering school facility
March 10 – Met with Senator Majority Counsel staff Ryan McAllister and Nikki Stewart and Secretary to the Assembly Ways and Means, Blake Washington
March 11 – Politico article, “UAlbany seeks to redefine itself with engineering, tech”
March 15 – Community leader Carolyn M. Keefe letters to Senator Amedore, Assembly members Fahy & McDonald. Pine Hills support from President Virginia Hammer
March 29 – Assembly members Fahy and McDonald TU op-ed in support of Schuyler

April 2016 –
April 13 – Capitalize Albany meeting with Michael Castellana at Kiernan Plaza
April 27 – Jim Stellar, Terri Roller and Sheila Seery met with MiSci Director

June 2016 –
June 27 – Kim Boyer and Sheila Seery met with Dr. Kimberly Wilkins, Interim Albany Central School District Superintendent

July 2016 –
July 18 – Corridor Study Community Input sessions?
July 20 – Congressman Paul Tonko toured the Schuyler building, picture with Jim Stellar and Dean Kim Boyer in front of Schuyler

August 2016 –

September 2016 –
• Sept 28 – Applied for $10 million in Round 5 NYSUNY 2020 Challenge Grant
  NOT AWARDED
• November 2016 –
  o Nov 18 – Kim Boyer and Jordan Carleo-Evangelist’s engineering demonstration before 6th graders at Hackett Middle School
• December 2016 –
  o Dec 6 – Schuyler tour and lunch on Downtown Campus with area chamber presidents and Andrew Kennedy, Center for Economic Growth
• March 2017 –
  o March 2 – Jim Stellar, Interim President, spoke to UAlbany Engineering Class
  o Announcement of $4 million anonymous gift to CEAS
  o March 26 – Walter Robb, former senior vice president for corporate research and development, GE wrote Letter to the Editor, “Engineering will lift up UAlbany”
• April 2017 –
  o April 26 – Jordan spoke to the Albany Rotary about Schuyler
• July 2017 –
  o July 25 – NYS Consolidated Funding Application (Applied for $2.4 million with $9.6 million match required) Designated as Priority Project for the Region but NOT AWARDED
• December 2017 –
  o Dec 8 – Shared Schuyler Elevator Speech with UAlbany’s University Council
• February 2018 –
  o Feb 8 – Prepared Schuyler glossy two-pager
  o Feb 16 – President Rodríguez met with Assembly members Fahy and McDonald
  o Feb 20 – President Rodríguez met with Steve Mann, Senator Schumer’s Deputy State Director, Senator Tedisco and a staffer for Senator Marchione
  o Feb 23 – Article in the Albany Business Review, “How engineering success is building a fight over talent,” mentions UAlbany College of Engineering and Applied Sciences with a picture of Schuyler
The University at Albany is seeking $20 million in capital funding to transform the former Albany High School – a 106-year-old midtown landmark – into the new home of the College of Engineering and Applied Sciences (CEAS).

With undergraduate engineering enrollment up 133 percent and the hiring of 20 new faculty members, UAlbany’s engineering college is in demand and already growing far faster than projected. Now CEAS needs a 21st-century home to ensure this remarkable growth continues. The fully renovated Schuyler Building will cement the engineering college’s role as a powerful engine of access to academic excellence and economic opportunity on an urban campus in the heart of New York’s capital city.

A model of smart, sustainable development through the adaptive reuse of a historic building, it’s no wonder the Schuyler Building was designated by the Capital Region Economic Development Council as a priority project for the region. Through partnerships with the city, industry, K-12 educators and other key community stakeholders, CEAS in the Schuyler Building will also be a model for how campuses can leverage SUNY’s academic excellence to become nodes of economic and community development for the advancement of all of New York State.

UAlbany’s Schuyler Building project is engineering opportunity in the following ways:

- **Access:** Among SUNY’s four University Centers, UAlbany has the highest percentage of students historically underrepresented in engineering careers. Those students now have access to a world-class engineering education at the value provided by a public research University, making CEAS not only a ladder for economic mobility but for much-needed diversity in STEM fields.
The Schuyler Building at the University at Albany: Engineering Opportunity

- **Neighborhood revitalization:** Located on the Downtown Campus, the Schuyler Building represents UAlbany’s biggest investment in the heart of the city of Albany in decades; and through a close partnership with the city, renovation and restoration of this key neighborhood asset will help catalyze private investment in an important midtown corridor.

- **Economic development:** The job market for engineers is booming, and CEAS will supply companies with a well-prepared workforce to fuel the growth of the regional and state economies. The college’s partnership with a nearby technology and arts incubator being developed by the local business community, meanwhile, will help seed businesses that will become the employers of tomorrow.

- **Academic excellence:** CEAS is central to UAlbany’s largest academic expansion in 50 years – an expansion concentrated in high-demand areas like cybersecurity and engineering. The Schuyler Building will house a college whose students are academically among the strongest at UAlbany and a faculty that has already secured $5.2 million in external research funding.

Despite the challenges associated with reviving a century-old landmark, the University’s decision to locate CEAS in the Schuyler Building was an intentional and transformational one. UAlbany is committed to its role as an inclusive and engaged anchor institution and to serving as a model of how SUNY campuses can be beacons of growth in their students’ lives and their host communities.

---

**For more information, please contact:**

Sheila Seery, Associate Vice President, Government and Community Relations  
518-956-8163 • sseery@albany.edu

Jordan Carleo-Evangelist, Director, Community Relations  
518-956-8163 • jcarleo-evangelist@albany.edu
Join Me in an Engineering Opportunity

In 2016, UAlbany’s College of Engineering and Applied Sciences became the first fully featured public engineering college in the Capital Region. That’s a significant development that is opening pathways to high-paying engineering careers that were previously closed to people who could not afford the cost of a private engineering education.

The new college provides a high-quality engineering education at a comprehensive public research university, which is also among the most diverse of the 115 top research universities in the country.

Why is that noteworthy? It means UAlbany’s diverse student body positions it to play an important role in diversifying a STEM workforce in which women and minorities are woefully underrepresented.

But the transformational power of UAlbany’s engineering college extends beyond its student body to its location.

UAlbany very intentionally chose to renovate the historic Schuyler Building at the western end of our downtown campus to become the home of the new engineering college. This adaptive reuse of a 105-year-old vacant former high school is a once-in-a-generation project that will have profound impacts on several levels, including:

- greater access to education and high-paying engineering jobs,
- neighborhood revitalization and economic growth,
- public engagement and service to society through science, and
- the opportunity to become a national model for researchers, entrepreneurs and businesses collaborating and innovating under one roof.

But before any of that can happen, we need to secure $20 million to fund the first phase of the Schuyler Building renovations.

Why $20 million? Though the total renovation is $60 million, $20 million enables us to move in and begin assembling the critical mass of daytime activity that will transform the Downtown Campus, mid-town corridor, Capital Region and the lives of students and residents.

UAlbany is committed to engineering opportunity.

Please contact NYS Senators Amedore and Breslin and Assembly members Fahy and McDonald in support of a dedicated state capital lump sum above and beyond the SUNY system-wide capital plan.

If you know of other funding sources, please share them with us, too.

For additional information, please contact:

- Sheila Seery, Associate Vice President, Government and Community Relations  
  Phone: 518-956-8163  
  Email: sseery@albany.edu

- Jordan Carleo-Evangelist, Director of State and Community Relations  
  Phone: 518-956-8016  
  Email: jcarleo-evangelist@albany.edu