

UConn
2000

49 REPORT



UConn
UNIVERSITY OF CONNECTICUT



Thanks in good measure to UConn 2000, the University continues to attract scores of the state and nation's best and brightest students to Connecticut, most of whom live and work in the Nutmeg State after commencement.

UCONN 2000

REBUILDING, RENEWING AND ENHANCING THE UNIVERSITY OF CONNECTICUT

January 2020

The Forty Ninth
in a series of reports to

Governor Ned Lamont
and the
Connecticut General Assembly

UNIVERSITY OF CONNECTICUT

UCONN 2000: THE UPDATE

This is the forty-ninth in a series of semi-annual reports to the Governor and the General Assembly pursuant to the provisions of Sections 10a-109 through 10a-109y of the Connecticut General Statutes, originally An Act to Enhance the Infrastructure of the University of Connecticut, now known as UCONN 2000. These reports have been issued biannually since passage of UCONN 2000 on June 7, 1995. The law also requires a four-year progress report, which was filed on January 15, 1999, as well as two five-year performance reviews, which were submitted January 15, 2006 and January 15, 2011. The Act further provides that not later than December 31, 2019 and every 5 years thereafter, the University shall conduct an assessment of the University's progress in meeting the purposes set forth and incorporated in the Act by Next Generation Connecticut.

UCONN 2000: PROGRAM IMPROVEMENT

During this reporting period, the requirements concerning UCONN 2000 contained in Public Act 06-134 continue to be implemented. In 2008, the Construction Management Oversight Committee (CMOC) concluded its most significant and major undertaking, approving the policies and procedures developed by the University. In December 2014, the CMOC unanimously voted that the CMOC had successfully concluded its work as defined in statute and the four members appointed by the Governor and legislative leaders resigned from the committee. Despite requests to refill vacancies, no new appointments have been made and the committee has not been able to meet due to the lack of a quorum. Absent the appointments being made, the UConn Board of Trustees voted to transfer the CMOC's responsibilities to the Board's Buildings, Grounds and Environment Committee (BGE). BGE meets on a regular basis to review reports from the Office of Construction Assurance, which monitors University project management, procurement policies and procedures and is headed by a director, who reports to the UConn Board of Trustees and the President. BGE also reviews the status of major projects and remaining code correction programs.

Pursuant to Chapter 185b, Section 10a-109z of the Connecticut General Statutes (the Statute), the Board of Trustees for the University of Connecticut appointed the independent accounting firms of Marcum LLP, formerly UHY LLP and RSM US LLP, formerly McGladrey LLP, to perform audits of the UCONN 2000 project expenditures for the fiscal years 2005 through 2010 and 2011 through 2015, respectively. Marcum and RSM issued an unmodified or clean audit opinion for each year of the engagement. With the exception of fiscal year 2013, no material weaknesses or significant deficiencies in internal control were reported to management in connection with the audits of UCONN 2000 project expenditures for fiscal years 2005 through 2015. In connection with the audit of UCONN 2000 project expenditures for the 2013 fiscal year, RSM identified a deficiency in internal control that they determined constituted a significant deficiency related to the application of certain markups on change orders and base contracts. University management has taken steps to enhance the effectiveness of internal control to ensure that markup calculations are accurate and in accordance with contract terms.

Pursuant to the Statute, the Board of Trustees appointed the independent accounting firm of CohnReznick LLP to perform audits of UCONN 2000 project expenditures for the fiscal years 2016 through 2020. CohnReznick issued unmodified audit opinions for the 2016, 2017 and 2018 fiscal years and in connection with the audits of UCONN 2000 project expenditures, no material

weaknesses or significant deficiencies in internal control were reported to management. The audit of UCONN 2000 project expenditures for the 2019 fiscal year is underway.

The University employs building and life safety inspectors who review and sign off on all University construction plans and conduct field inspections to ensure that construction work meets all state building and life safety codes. The University inspectors work closely and effectively with the State Building Inspectors to ensure projects are code compliant.

RECENT CAPITAL FUNDING HISTORY: UNPARALLELED STATE COMMITMENT

In 2011, the State of Connecticut made strategic investments in the University of Connecticut and the University of Connecticut Health Center (UConn Health) to position Connecticut at the forefront of the growing bioscience industry. The investments were made with the promise that they would leverage other bioscience initiatives.

In 2011, the General Assembly approved the Bioscience Connecticut Initiative (Public Act 11-75), a bold \$864 million plan to reinvigorate all three areas of the UConn Health mission – research, education and clinical care. These investments aimed to generate long term sustainable economic growth based on bioscience research, innovation, entrepreneurship and commercialization. The project also called for short-term economic activity through a surge of construction-related jobs attributable to the expansion and renovation of infrastructure at UConn Health.

Construction components of Bioscience Connecticut on the UConn Health campus included:

- Renovating and modernizing, for the first time in its history, UConn Health's original research facilities on the Farmington campus. This included expanding space for start-up bioscience businesses at the Cell and Genome Sciences Building.
- Constructing a new hospital tower.
- Renovating portions of the John Dempsey Hospital and the Clinic Building. Constructing, with private financing, a new UConn Health Outpatient Pavilion on the lower campus.
- Construction of an addition to the Academic Building to support an increase in Medical and Dental School class sizes.

Programmatic components of Bioscience Connecticut included:

- Recruiting new faculty, including clinicians and basic scientists, to increase healthcare access and federal and industry research awards.
- Doubling existing business incubator space to support commercialization and start-up companies.
- Expanding the School of Medicine and School of Dental Medicine class sizes by 30 percent.
- Implementing a loan forgiveness program for UConn Medical School graduates who pursue careers in primary care in Connecticut.
- Sponsoring a Health Disparities Institute to enhance research and the delivery of care to the minority and medically underserved populations of the state.

- Supporting the development of a primary care institute located on the campus of Saint Francis Hospital and Medical Center – the Connecticut Institute for Primary Care Innovation – intended to increase the number of primary care providers in the state.
- Supporting the development of a comprehensive cancer center to expand clinical trials and advance patient care at multiple sites in the Hartford region.

Also in 2011, legislation was enacted, which was subsequently amended in 2014 that provided \$169.5 million in funding to create the first building of a Technology Park (The Innovation Partnership Building – IPB) on the Storrs campus. The new Tech Park, like the Bioscience Connecticut Initiative, is a critical component of Connecticut’s plan to stimulate long-term economic growth by supporting innovation, new technologies and the creation of new companies and high-paying, sustainable jobs. Twenty-first century tech park models emphasize invention, incubation and entrepreneurship. The first building of the Tech Park will help hit the mark by promoting academic and industrial partnerships and by providing the physical and intellectual capacity to foster discovery.

In October 2011, just months after the passage of the capital investment at the University, the General Assembly adopted in special session, Public Act 11-2 establishing the Connecticut Bioscience Collaboration Program (the “Collaboration”) supporting the establishment of a Bioscience cluster anchored by the world renowned Jackson Laboratory. The Jackson Laboratory Center for Genomic Medicine research building, located on UConn Health’s campus in Farmington, opened in October 2014.

The groundbreaking for the first Bioscience Connecticut project took place on June 11, 2012. We are pleased to report that at this time, all projects associated with Bioscience Connecticut are complete and the UConn Health campus has been transformed into a modern, state-of-the-art academic medical center campus. Key construction projects that have been finalized include the Main Building Research Lab Renovations, the Technology Incubator Addition, the Academic Addition and Renovations, the Outpatient Pavilion, a new hospital bed tower known as the University Tower, three new parking garages, and many roadway improvements both on and off campus. The final project, Renovations to the Clinical Area of the Main Building, was completed in May 2019. With the completion of the final projects, FY18 was the final year of funding for UConn Health projects under the Bioscience Connecticut Initiative; therefore, there are no remaining named projects in the current UCONN 2000 program to support UConn Health’s capital needs.

In July 2013, the General Assembly adopted Public Act 13-233 establishing Next Generation Connecticut for the purposes of construction, renovations, infrastructure and equipment related to the development of preeminence in the University of Connecticut's research and innovation programs. The Act not only authorized additional projects, but it also extended the capital program by 6 years through 2024 and added \$1.551 billion of additional funding. Pending annual operating appropriations, the Next Generation Connecticut initiative will also allow the University to (1) hire and support outstanding faculty, (2) train and educate more science, technology, engineering and math (STEM) graduates to meet the future workforce needs of Connecticut, and (3) initiate collaborative partnerships that lead to scientific and technological

breakthroughs. During the 2017 legislative session, the phasing of the capital program funding was changed and the Next Generation Connecticut initiative was extended by three years to 2027.

UCONN 2000: STATUS REPORT

MASTER PLANNING, DESIGN AND MANAGEMENT

The University's Master Plan provides a template for the development of the University's physical plant and infrastructure. The 1998 Storrs Campus Master Plan was updated in 2006 to reflect the extensive physical changes on all the campuses resulting from the UCONN 2000 initiatives. It should be noted that the Master Plan has been modified throughout the project planning, design and construction process of UCONN 2000. As part of the Technology Park initiative, an update to the North Campus Master Plan was prepared to delineate various site, vehicular and pedestrian pathways, utility corridors, and landscape improvements to facilitate the future development of that part of campus. This work is incorporated in the comprehensive 2015 Master Plan for the campus.

The 2015 Master Plan reflects the impacts of the proposed projects included in the Next Generation Connecticut initiative and guides the development of the Storrs campus for the twenty (20) year period between 2015 and 2035. The 2015 Master Plan documents the state of existing conditions on campus and issues related to land use; space needs for academic, research, student life and administrative uses; recommended deferred maintenance and capital investments in the physical plant; environmental issues and sustainable design principles for future development; parking, circulation and transportation issues; and specific strategies to improve landscape quality and open spaces. The Master Plan references the programmatic ties to the Regional campuses, but does not include separate master plans for those locations.

The 2015 Master Plan is a comprehensive summary of the current conditions of the campus as of 2015 and a guideline for the proposed development of the Storrs campus over the next 20 years. The first ten years of development (2015-2024) are driven by the recently adopted Academic Vision Plan and fueled by the Next Generation Connecticut funding program. The plan also forecasts development that may occur beyond the Next Generation Connecticut projects (2028 - 2035). This potential future development will require new funding sources and builds on the success of the first decade of growth. The total amount of development portrayed in the plan includes facilities that would be needed to grow the undergraduate student population by 5,000, accommodate a substantially larger research enterprise, repair or replace obsolete facilities and meet the commitments of the Climate Action Plan for a sustainable campus.

Implementation of the Master Plan

Future planned development will be programmed and designed to conform to the concepts and the development pattern contained in the Master Plan documents. The Master Plan will inform the design and implementation of the utility infrastructure, storm water management systems, roads and parking areas, landscape and land use, and individual projects. The urban form of the campus will take shape as envisioned in the Master Plan and will be refined by future design initiatives as specific developments are designed and built. While the Master Plan will inform and guide future development decisions, the final location, design, and programming of specific

projects will be decided when those projects are implemented. Individual construction projects undertaken as part of this plan will, as always, be brought to the Board of Trustees for approval, along with the project budgets.

The final version of the Master Plan and its Executive Summary, Design Guidelines and Appendices, dated May 2015, were issued and are posted on the UConn website at <http://masterplan.uconn.edu/documents/>.

BIOSCIENCE CONNECTICUT

As noted above, all of the Bioscience Connecticut construction projects are now complete. Through March 2019, over 6,200 construction workers have been employed on the Bioscience Connecticut projects and 85% of the construction contracts were awarded to Connecticut companies. The Minority/Women/Disadvantaged Business participation reached 23%, exceeding the statutory minimum of 6.25% by nearly 17%.

The Bioscience Connecticut initiative planned for \$69 million in funding from operations, special eligible gifts or other sources toward new construction and renovation projects. UConn Health and the University of Connecticut Foundation will continue their efforts to identify funding opportunities for these capital needs.

NEXT GENERATION CONNECTICUT REPORT

Statutory Requirement

As part of Next Generation Connecticut, the University shall report not later than January 1, 2016, and annually thereafter, in accordance with the provisions of Section 10a-109x(c), to the joint standing committees of the General Assembly having cognizance of matters relating to finance, revenue and bonding, commerce and higher education on its progress toward achieving the goals set forth in the plan developed pursuant to the act. The report shall include a summary of the research and economic development activities of the University. Pursuant to Section 10a-109nn, the University has conducted an assessment of this progress in achieving the goals set forth in the plan as compared to nationally ranked research universities. This assessment is submitted to the chairpersons and ranking members of the joint standing committees of the General Assembly having cognizance of matters relating to finance, revenue and bonding, commerce and higher education by December 31, 2019 and five years thereafter.

Summary

The Next Generation Connecticut (NextGenCT) initiative represents one of the most ambitious State investments in economic development, higher education and research in the nation. UConn is grateful for the support we have received, especially capital funds. The continued pursuit of academic excellence will fuel Connecticut's economy with new technologies, highly skilled graduates, marketable patents and licenses, and the creation of new companies and high-wage jobs.

The components of this ambitious plan include:

- Hiring new research and teaching faculty;
- Increasing enrollment of undergraduate students at the Storrs and Stamford campuses;

- Building research facilities to house materials science, physics, biology, engineering, cognitive science, genomics and related disciplines;
- Constructing new teaching laboratories;
- Creating a premier STEM Honors program to attract increasing numbers of high achieving undergraduates;
- Upgrading aging infrastructure to accommodate new faculty and students;
- Expanding degree programs and providing student housing in Stamford;
- Relocating the Greater Hartford Campus to downtown Hartford; and
- Better integrating the research activities of the Storrs and regional campuses with the UConn Health campus.

NextGenCT is comprised of both capital and operating budget components. The University gratefully acknowledges this funding and hopes that sustained support will be received to allow the University to continue to move forward with this transformative program. Since capital funding was first made available in July 2015, the University has moved forward aggressively with NextGenCT projects. A Campus Master Plan, which is a summary of the current conditions of the campus as of 2015 and a guideline for the proposed development of the Storrs campus over the next 20 years, was approved by the Board of Trustees on February 25, 2015. A new Next Generation Residence Hall was completed for the Fall of 2016; and the Engineering and Science Building in Storrs and the new downtown Hartford Campus were completed for the Fall of 2017. Major renovations to the Gant Science Building are underway. Additionally, planning and design is almost complete on the new STEM Research building.

Given the State's fiscal challenges, the amount of operating funds appropriated from the State in FY15 through FY20 has understandably been significantly reduced relative to what was originally planned. It must be noted that this reduction in operating funds is specifically a reduction in the capacity to hire new faculty, and it creates significant challenges for the University in meeting the operating goals of NextGenCT. In particular, growing STEM faculty is the first step in growing the discovery, innovation, technology commercialization, and new company/job creation pipeline that is a critical element of UConn's role in Connecticut's economic development. Lack of faculty also hampers our ability to grow undergraduate enrollment while maintaining class size and academic excellence.

The following report represents the specific information, per statute, which the University is required to submit. As appropriate and available, peer comparisons have been included.

- Student applications, student enrollment and degrees awarded
- Sponsored Programs Proposals, Awards, and Expenditures
- Industry partnerships including joint projects, consortium projects, and technology incubator support
- A summary of University and joint University-industry intellectual property activities, including the number of disclosures, patents, licenses, new businesses and entrepreneurial activities established with University technologies
- Identification of research and innovation benchmarks and an analysis of the University's progress in meeting such benchmarks

Undergraduate Student applications, student enrollment and degrees awarded:

	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	13-19 % Change	FY 2020	13-20 % Change
Undergraduate Freshmen Applications										
STEM: Storrs	14,916	13,857	15,539	17,540	19,264	17,295	17,800	19%	18,195	22%
Non-STEM : Storrs	15,050	13,622	15,741	17,438	16,716	16,903	17,086	14%	16,901	12%
Subtotal: Storrs	29,966	27,479	31,280	34,978	35,980	34,198	34,886	16%	35,096	17%
Regionals	1,397	1,610	912	1,022	1,083	2,699	3,144	125%	1,945	39%
Total	31,363	29,089	32,192	36,000	37,063	36,897	38,030	21%	37,041	18%
Avg Peer Total	22,090	23,482	25,377	25,991	27,261	29,408	30,256	37%		
Undergraduate Enrollment										
STEM: Storrs	7,995	8,646	9,376	9,760	10,303	10,451	10,626	33%	10,518	32%
Non-STEM: Storrs	9,533	9,386	9,019	9,066	9,021	8,790	8,507	(11%)	8,329	(13%)
STEM: Regionals	1,142	1,246	1,278	1,403	2,911	1,441	1,532	34%	1,632	43%
Non-STEM: Regionals	3,631	3,317	3,300	3,178	1,395	3,163	3,313	(9%)	3,421	(6%)
Total	22,301	22,595	22,973	23,407	23,630	23,845	23,978	8%	23,900	7%
Avg Peer Total	26,288	26,901	27,094	27,557	27,777	27,444	27,813	6%		
Bachelor's Degrees										
STEM	2,387	2,537	2,634	2,672	2,964	3,036	3,158	32%		
Non-STEM	2,735	2,663	2,686	2,525	2,566	2,582	2,498	(9%)		
Total	5,122	5,200	5,320	5,197	5,530	5,618	5,656	10%		
Avg Peer Total	5,789	5,665	5,894	6,023	6,112	6,222	6,301	9%		

Graduate Student applications, student enrollment and degrees awarded:

	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	13-19 % Change	FY 2020	13-20 % Change
Master's Applications										
STEM	2,175	2,461	2,854	3,703	4,449	4,828	4,289	97%	3,775	74%
Non-STEM	3,126	2,937	3,018	3,136	3,192	2,859	2,712	(13%)	2,575	(18%)
Total	5,301	5,398	5,872	6,839	7,641	7,687	7,001	32%	6,350	20%
Doctoral Applications										
STEM	2,856	2,548	2,407	2,224	2,145	2,193	2,067	(28%)	2,119	(26%)
Non-STEM	1,516	1,543	1,567	1,613	1,613	1,615	1,439	(5%)	1,472	(3%)
Total	4,372	4,091	3,974	3,837	3,758	3,808	3,509	(20%)	3,591	(18%)
Graduate Enrollment										
Master's STEM	775	862	880	876	837	781	784	1%	812	5%
Master's Non-STEM	2,593	2,536	2,662	2,830	3,107	3,131	3,077	19%	3,113	20%
Subtotal Master's	3,368	3,398	3,542	3,706	3,944	3,912	3,861	15%	3,925	17%
Doctoral STEM	1,428	1,500	1,524	1,477	1,481	1,560	1,592	11%	1,607	13%
Doctoral Non-STEM	1,023	1,041	1,051	1,024	1,009	971	947	(7%)	925	(10%)
Subtotal Doctoral	2,451	2,541	2,575	2,501	2,490	2,531	2,539	4%	2,532	3%
Other Graduate	794	616	713	738	705	655	604	(24%)	640	(19%)
Total	6,613	6,555	6,830	6,945	7,139	7,098	7,004	6%	7,097	7%
Avg Peer Total	8,117	8,113	8,160	8,328	8,515	8,518	8,562	5%		
Master's Degrees										
STEM	391	415	453	443	425	477	429	10%		
Non-STEM	1,136	1,221	1,260	1,307	1,479	1,571	1,466	29%		
Total	1,527	1,636	1,713	1,750	1,904	2,048	1,895	24%		
Doctoral Degrees										
STEM	201	214	234	232	270	261	286	42%		
Non-STEM	139	128	138	147	141	123	132	(5%)		
Total	340	342	372	379	411	384	418	23%		
Master's + Doctoral Total	1,867	1,978	2,085	2,129	2,315	2,432	2,313	24%		
Avg Peer Master's + Doctoral Total	2,078	2,140	2,151	2,154	2,291	2,341	2,363	14%		

Note: Peer Average is calculated utilizing Nationally Ranked Research Universities: Indiana University, Michigan State University, Purdue University, University of Delaware, University of Georgia, University of Kansas, University of Kentucky, and University of Utah.

The University has experienced significant growth in applications, enrollment and degrees awarded. Although the number of high school graduates has decreased in the State and region, UConn is drawing an even larger component of that shrinking pie – without compromising on its high academic standards and admission requirements. The University's ability to offer an outstanding education and student experience at an affordable price for families continues to attract many of the very best students to UConn from across Connecticut, the nation, and the world, and makes UConn graduates the foundational workforce for Connecticut's high technology economy. The fall 2019 freshmen class represents strong academic quality and diversity, which are great examples of how State investments in UConn are paying off. The University is proud to keep great students in Connecticut and to attract new students to our State every year. A record number of this year's freshmen have been accepted into UConn's competitive Honors Program, of which over half were in the top 10% of their high school graduating class. Additionally, 45% of the members of the Class of 2023 are from minority

groups, making it one of the most ethnically diverse group of students to join the University. Over the past 20 years, the mean SAT score of incoming freshmen has increased significantly and now stands at 1296 for the entering freshman class of fall 2019, which is 237 points above the national average and 250 points above the Connecticut average. The number of valedictorians and salutatorians in the freshman class has increased from 40 in 1995 to 180 in 2019. The University has improved freshmen retention and minority freshmen retention over this same time period as well. The freshmen retention rate of 94% is substantially higher than our public research peer universities. Following that positive trend are the University's 4-year and 6-year undergraduate graduation rates. Since 1995, the 4-year graduating rate has risen from 43% to 73% and for the second year, Storrs has had the highest 6-year graduating rate of 85%. The average time to graduate for UConn students is at a remarkably low 4.2 years and ranks 4th among our public research peers, which helps to keep parent/student educational costs down.

In summary, the University has not only made significant progress towards improving the following NextGenCT goals, but it has also exceeded the percentage growth of our nationally ranked peers in nearly every category of the previous table.

- Storrs Engineering Undergraduate Enrollment increased from 1,978 in FY13 to 3,173 in FY20
- Storrs STEM Undergraduate Enrollment increased from 7,995 in FY13 to 10,518 in FY20
- Storrs Undergraduate Enrollment increased from 17,528 in FY13 to 18,847 in FY20
- Undergraduate STEM Degrees Awarded increased from 2,387 in FY13 to 3,158 in FY19

Sponsored Programs Proposals, Awards, and Expenditures (Storrs and Regional campuses – not including the UConn Health campus)*:

	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	13-18 % Change	FY 2019	13-19 % Change
Sponsored Programs Proposals (\$M)									
STEM	\$511	\$573	\$648	\$619	\$569	\$625	23%	\$645	26%
Non-STEM	56	83	74	84	135	67**	23%	93	66%
Total	\$567	\$656	\$722	\$703	\$704	\$693	23%	\$738	30%
Sponsored Programs Awards (\$M)									
STEM	\$71	\$79	\$120	\$165	\$102	\$139	96%	\$135	90%
Non-STEM	24	26	27	30	27	25	6%	29	21%
Total	\$95	\$105	\$147	\$195	\$129	\$164	73%	\$164	73%
Sponsored Programs Average Award Size (\$K)									
STEM	\$176	\$195	\$257	\$370	\$247	\$295	68%	\$307	74%
Non-STEM	\$204	\$220	\$201	\$280	\$245	\$348	71%	\$338	66%
Total	\$182	\$201	\$244	\$352	\$247	\$302	66%	\$302	66%
Sponsored Programs Expenditures (\$M)									
STEM	\$95	\$93	\$92	\$102	\$101	\$107	13%	\$123	29%
Non-STEM	28	29	33	34	35	33	17%	34	21%
Total	\$123	\$122	\$125	\$136	\$136	\$140	14%	\$157	28%

* Sponsored Programs data includes external funding for research, service, and education projects.

** Non-Stem Proposals: FY17 included one large \$50M proposal and a change in the proposal submission date from previous fiscal years, which resulted in a \$6M proposal being submitted in FY17 that in other fiscal years would have been submitted in the following fiscal year, FY18.

NSF Higher Education Research & Development (HERD) Survey of Research Expenditures (\$M)

Institution	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	13-18 % Change
UConn (includes UCH)	\$242.3	\$258.1	\$259.4	\$265.5	\$267.6	\$269.7	11%
Michigan State University	\$515.7	\$526.9	\$558.2	\$613.4	\$694.9	\$715.3	39%
Purdue University	\$595.7	\$564.9	\$558.6	\$606.3	\$622.8	\$631.6	6%
Indiana University	\$197.9	\$206.0	\$485.1	\$508.8	\$540.4	\$566.9	186%
University of Utah	\$494.1	\$486.1	\$518.9	\$350.2	\$380.3	\$552.3	12%
University of Georgia	\$350.2	\$355.5	\$374.3	\$410.3	\$455.4	\$453.2	29%
University of Kentucky	\$339.8	\$328.2	\$331.7	\$349.7	\$378.4	\$393.0	16%
University of Kansas	\$298.5	\$301.5	\$311.4	\$297.9	\$300.3	\$339.0	14%
University of Delaware	\$180.0	\$175.6	\$175.7	\$176.3	\$183.4	\$186.2	3%
Peer Average	\$371.5	\$368.1	\$414.2	\$414.1	\$444.5	\$479.7	29%

* NSF HERD Survey data is only available through FY 2018.

While the University continues to increase our research expenditures, the percentage change over the past five years lags other institutions, resulting in decreases in our national rank. The following table reflects our research expenditure rankings as compared to these nationally ranked peers.

Institution	NSF HERD Expend (\$M)**	NSF HERD Rankings**	U.S. News & World Report Ranking*	Wall Street Journal Ranking*	NSF Herd Ranking**	Land Grant University	Reuters World's 100 Most Innovative Universities	Princeton Review Top 50 Undergrad Entrepreneurship	Milken's Best Universities for Tech Transfer⁺
UConn (includes UCH)	\$269.7	88	24	105	88	Y	90	46	74
Indiana University	\$566.9	44	31	123	44	N	78	N/A	111
Michigan State University	\$715.3	32	34	81	32	Y	N/A	16	142
Purdue University	\$631.6	39	18	48	39	Y	62	50	12 (Research Fdn.)
University of Delaware	\$186.2	119	39	148	119	Y	N/A	38	118
University of Georgia	\$453.2	57	16	147	57	Y	N/A	N/A	51
University of Kansas	\$339.0	74	59	238	74	N	N/A	18	103
University of Kentucky	\$393.0	63	60	323	63	Y	N/A	N/A	80 (Research Fdn.)
University of Utah	\$552.3	45	44	126	45	N	38	12	1

* 2020 Rankings

**Rankings based on FY18 NSF Survey of Higher Education Research and Development (HERD)

+ Rankings based on most recent report from April 2017

The following grants represent a selection of the many significant sponsored programs awards made to the University for the period of FY13 through FY19:

- \$12.4 million, Dr. Minakshi Tikoo, CT Department of Social Services, “State Innovative Model (SIM).”
- \$11 million, Dr. Justin Radolf, National Institutes of Health, “A Global Syphilis Vaccine Targeting Outer Membrane Proteins of *Treponema pallidum*.”
- \$10 million, Dr. Eric Jackson, CT Department of Transportation, “Expanding the Role of Connecticut Transportation Safety Research Center to Enhance Connecticut’s Safety Analysis Methods and Systems.”
- \$10 million, Dr. Mary Bruder, US Department of Education, “Early Childhood Personnel Center II.”
- \$8.6 million, Dr. Brenton Graveley, National Institutes of Health, “A Comprehensive Functional Map of Human Protein-RNA Interactions.”
- \$8.2 million, Dr. James O’Donnell, US Department of Housing and Urban Development via the CT Department of Housing, “The Development of the Connecticut Connections Coastal Resilience Plan.”
- \$7.7 million, Dr. Alan Fontes, Centers for Medicare and Medicaid Services via the CT Office of Health Strategy, “CDAS Solution Architecture.”
- \$7.4 million, Dr. Nina Heller, CT Department of Social Services, “Agreement between the University of Connecticut School of Social Work and the Department of Social Services.”
- \$5.8 million, Dr. Michael Lynch, John Templeton Foundation, “The Intellectually Humble Society.”
- \$5.4 million, Dr. Pamir Alpay, US Department of Defense, “Simulation-Based Uncertainty Quantification of Manufacturing Technologies.”
- \$4.4 million, Dr. Brandi Simonsen-Gaines, US Department of Education, “National Center on Positive Behavioral Interventions and Supports.”
- \$3.5 million, Dr. Seth Kalichman, National Institutes of Health, “Unified Intervention to Impact HIV Care Continuum.”
- \$3.4 million, Dr. Fumiko Hoeft, National Institutes of Health, “Neural Mechanisms Underlying Compensation in Dyslexia.”

In an effort to expand UConn’s research capacities and competitiveness, the University is providing research faculty with grant proposal development support, seed funding, and state-of-the-art equipment and laboratory infrastructure in support of grant submissions for the following key programs that align with NextGenCT including:

- National Network of Manufacturing Innovation
- National Microbiome Initiative
- Manufacturing Partnership Community
- NIH P30 Centers
- National Science Foundation Engineering Research Center
- National Science Foundation Materials Research Center
- National Science Foundation Science & Technology Center
- Department of Energy-Energy Frontiers Research Center
- Department of Energy ARPA-E

- Department of Defense MURI
- NIH Brain Initiative
- Related programs at federal agencies
- Industry programs

In summary, the University has funded 174 NextGenCT new faculty hires from FY14 through FY20 with 98 of those hires in the STEM fields.

- Full-time tenured/tenure track STEM faculty increased from 503 in FY13 to 593 in FY20 or by 18%
- Full-time STEM faculty increased from 670 in FY13 to 842 in FY20 or by 26%

However, the total number of new faculty will be significantly lower than planned because of the cuts in State operating support since FY15. These cuts have also restricted our ability to replace retiring faculty, which can result in net loss of faculty despite the new hiring through NextGenCT. Due to the reduction in NextGenCT funding that has occurred, our original goals of hiring faculty to train the next generation of students, conduct transformational research, create new companies based on intellectual property from this research, and to drive job creation in Connecticut may be significantly reduced. Progress toward NextGenCT goals could be further eroded if originally planned funding is not restored and if out-year funding is not appropriated at requested levels.

Full Time Faculty	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	13-19 % Change	FY 2020	13-20 % Change
T/TT Faculty	1,044	1,102	1,151	1,121	1,127	1,140	1,085	4%	1,121	7%
Peer Avg T/TT Faculty	1,233	1,426	1,385	1,401	1,408	1,400	1,471	19%		
Non-TT	268	306	294	298	326	355	350	31%	415	55%
Total Faculty	1,312	1,408	1,445	1,419	1,453	1,495	1,435	9%	1,536	17%
Peer Avg Total Faculty	1,985	2,060	1,847	1,875	1,911	1,930	2,015	2%		

Notes: FT=Full Time; T/TT=Tenured/Tenure Track

Source: National Center for Education Statistics, Integrated Postsecondary Education Data Systems Data Center.

The increase in the number of tenured/tenure track faculty shown in the table above has contributed to the increase in the amount of research proposals and research awards. The positive impact on research expenditures and business activity will continue to be seen over the next few years as the growing number of proposals and research awards translate into expenditures and business activity. While the University's total faculty growth exceeds our peers, our focus on growing tenured/tenure track faculty will continue in order to support greater research growth. Importantly, over the past six years, the University has made significant progress towards improving the following metrics:

- Sponsored Program Awards increased from \$95M in FY13 to \$164M in FY19
- Average Award Size increased from \$182K in FY13 to \$302K in FY19

Industry partnerships including joint projects, consortium projects, and technology incubator support:

The full economic return from NextGenCT will be measured not only by the University's continued increases in research and talent generation, but by its broader engagement and partnerships with industry. One of the key objectives set out in the legislation for NextGenCT is to initiate collaborative partnerships with industry that lead to scientific and technological breakthroughs. With this focus on advancing industry partnerships in mind, the University has set out to have an explicit strategic roadmap to establish a comprehensive and leading program for impactful industry partnerships. This strategic roadmap focuses on the development of world-class strengths in areas of expertise that match the needs of Connecticut's industry growth opportunities.

Thus far, the University has developed centers of excellence and announced partnerships with multiple key industries and institutions as part of the development of the Innovation Partnership Building (IPB) at UConn Tech Park:

- \$25 million UConn Thermo Fisher Scientific Center for Advanced Microscopy and Materials Analysis
- \$16 million Eversource Energy Center
- \$10 million UTC Institute for Advanced Systems Engineering
- \$7.5 million Pratt & Whitney Additive Manufacturing Center
- \$7.2 million Fraunhofer USA Center for Energy Innovation CEI
- \$6 million Comcast Center for Security Innovation
- \$2.2 million Synchrony Center of Excellence in Cybersecurity
- \$2.1 million Connecticut Manufacturing Simulation Center
- \$1.5 million Proof of Concept Center/Quiet Corner Innovation Cluster
- \$2.2 million Collins Aerospace Center for Advanced Materials
- Reverse Engineering Fabrication Inspection & Non-Destructive Evaluation Labs (Investment amount not disclosed)
- \$3.5 million National Institute for Undersea Vehicle Technology
- \$5.4 million Air Force Research Labs – Research in Advanced Manufacturing (under negotiation for ~\$7.5M expansion)

In addition to these innovative efforts associated with the IPB at UConn Tech Park, there is a variety of partnerships with corporate sponsors in various stages of development and implementation. In FY19, corporate sponsored programs expenditures totaled approximately \$13.9 million. Companies including, but not limited to, the following sponsored research at UConn and UConn Health in FY19:

- 3M, Abbott Laboratories, Alexion Pharmaceuticals, Amgen Inc., Arthrex Inc., Bayer Pharmaceuticals, Biogen, Boehringer Ingelheim Pharmaceuticals, Inc., Boeing, Bristol Myers Squibb, Cadenza Innovations, Colgate Oral Pharmaceuticals, Duracell, Eversource, GlaxoSmithKline, Honda, Johnson & Johnson, Liberty Mutual Insurance, Merck Sharp & Dohme I. A. Corp., Nissan Motor Company, Novartis Pharmaceuticals Corp., Pfizer Inc., Precision Combustion, Procter & Gamble

Commercial, LLC, Regeneron Pharmaceuticals, Rogers Corporation, Toyota, Travelers, Unilever, United Technologies, ZEISS Microscopy, and more.

Corporate partnerships and sponsorships are also key to the exploration of new digital methodologies and the development of new digital practices. UConn's Digital Media and Design Center has had many relationships with industry leaders including Cigna, Boston Children's Hospital, Diversified Media Group, UTC Aerospace System, and BBDO, allowing the Center to identify and tackle new challenges that further its research goals.

There are many other growing business and entrepreneurial initiatives intended to encourage and foster a vigorous entrepreneurial culture at UConn and increase the potential for success of commercially viable companies formed from its innovation, entrepreneurship, and proof-of-concept competitions. These activities are designed to: 1) Maximize entrepreneurial education and incentivize the creation of cross-disciplinary innovation teams; 2) Aid the teams in identifying and addressing key business issues through mentorship and real-world problem solving activities; and 3) Provide mechanisms to deploy and allocate resources to the best commercialization opportunities that can attract future public or private fundraising. Some examples of these initiatives are listed below.

- A joint program with Yale funded by Connecticut Innovations for \$10 million for the Program in Innovative Therapeutics for CT's Health (PITCH) is designed to streamline the translational pathway for researchers and convert their discoveries into new therapeutics for the treatment of human diseases through resources available at UConn's School of Pharmacy and Yale's Center for Molecular Discovery.
- PATH (Program in Accelerated Therapeutics for Healthcare) is an internal funding program supported by the OVPR and the Schools of Medicine and Pharmacy that aims to accelerate the translation of UConn discoveries into new medical therapeutics. Competitive awards of \$75,000-\$150,000 are provided for projects on well validated molecular targets for a specific disease areas with an unmet treatment need in the current commercial marketplace.
- The \$2.25 million UConn Innovation Fund was created in partnership with Connecticut Innovations and Webster Bank to invest in new startups that have an UConn affiliation.
- Technology Commercialization Services (TCS) within UConn's Office of the Vice President for Research is the University's technology transfer and innovation enterprise and has successfully launched over 50 companies. In addition to new company startup creation, TCS also markets commercially viable patents through license agreements with appropriate industry partners. TCS works closely with internal and external stakeholders and maintains a close relationship with UConn's other entrepreneurship programs.
- The UConn SPARK Technology Commercialization Fund continues to provide support for faculty at Storrs and UConn Health to conduct prototype and proof-of-concept (idea to commercial product) work necessary to establish a startup or attract commercial partners. SPARK is an annual competition that has demonstrated value in a variety of ways, with a strong return on the \$1.3 million in funding awarded as of November 2018, including:
 - Four Phase I SBIR awards granted at approximately \$225,000 each (\$900,000 total)

- Four SRAs totaling \$300,000
- Two companies formed (Oral Fluid Dynamics and Potentiometric Probes – both SBIR awardees)
- \$1.9 million in R01 grant funding
- \$1.5 million in CTNext Grant funding
- 1 pending SBIR proposal (\$150,000), 2 pending SRA proposals (\$200,000 each); 1 pending R01
- The Connecticut Center for Entrepreneurship and Innovation (CCEI) serves as a hub for entrepreneurship at the University and facilitates student and faculty participation in entrepreneurial activities. CCEI administers the CCEI Summer Fellowship, the Wolff New Venture Competition, Accelerate UConn, Entrepreneurship Abroad, the InsurTech Initiative, Get Seeded, and Veteran Bootcamp. CCEI has moved to Hartford and is leading the Hartford Innovation Place initiative to build new entrepreneurial companies in the city.
- Accelerate UConn (AU) is UConn’s National Science Foundation (NSF) Innovation Corps (I-Corps) Site. The only site of its kind in the state, Accelerate UConn aims to catalyze the transition of new scientific discoveries and capabilities from the lab to the marketplace. Launched in 2015 with \$300,000 in funding from the NSF to operate the program, AU offers participating teams an introduction to the most critical elements of the I-Corps Curriculum and Lean Launchpad methodology as well as small seed grants for customer discovery activities. To date, over 100 teams have learned how to determine the market opportunity for their product or technology. The NSF continues to renew funding for Accelerate UConn based on successes achieved by the program and its participating commercialization team.
- Several recent awards granted through the CTNext Higher Education Innovation and Entrepreneurship Initiative include:
 - The Innovate Stamford program was catalyzed by a \$2 million grant in 2017. The UConn-Innovate Stamford collaboration leverages this and UConn’s research infrastructure, expertise and facilities. The initiative aims to provide a platform of new programs that will strengthen Stamford's position as a leader in technology, innovation, and entrepreneurship. The first phase of the program launched in the summer of 2019 with the UConn-Innovate Stamford Internship Program that connected 50 talented students with Stamford businesses. The Office of the Vice President for Research administers this program and is leading the UConn Innovate Stamford initiatives.
 - \$638,204 to launch a new Master’s of Engineering in Global Entrepreneurship to attract highly talented entrepreneurs from around the world to the state of Connecticut. The first class from this program graduates in the spring of 2020.
 - \$200,000 to increase entrepreneurial education and output among the state’s top researchers from industry and academia.
 - \$237,000 to expand an existing program at UConn Health through a multi-institution public-private, academia-industry partnership that engages students and faculty in innovation and entrepreneurship training and development in the health and bioscience sectors.
 - \$484,500 to leverage current innovation infrastructures at UConn through a multi-institution partnership that will commercialize inventions, promote

entrepreneurship, support startups, foster collaboration, and encourage the sharing of knowledge among partners.

- Intellectual Property and Entrepreneurship Law Clinic (IP Law Clinic) at the UConn School of Law was established through a collaborative effort of Technology Commercialization Services in the Office of the Vice President for Research, the UConn School of Law, and the School of Business to help potential companies with analysis of the IP landscape. The Clinic provides law students with the opportunity to counsel Connecticut's innovators in a range of intellectual property (patent, trademark, copyright, and trade secret) and related business law issues.
- Innovation Quest (iQ) is a longstanding entrepreneurial competition at UConn that provides training and potential funding to promising teams of student entrepreneurs. It was established through a collaborative effort of Technology Commercialization Services within the Office of the Vice President for Research and CCEI but is funded, supported, and driven by UConn alumni.
- The University joined Yale, Quinnipiac University, and Connecticut Innovations to establish the Bioscience Pipeline CT Program to support commercialization of early-stage biomedical technologies (medical devices, diagnostics, and health information technology) with \$30,000 grants that help make projects more competitive under the state's Bioscience Innovation Fund.
- The Third Bridge Grant provides seed funding to the School of Engineering with promising technologies developed independently and within UConn labs. The goal of Third Bridge is to mentor and aid students as they advance their technologies toward commercialization.
- Senior Design Projects: More than 200 industry-sponsored projects per year (spanning 1 to 2 semester courses) designed for senior engineering students to solve real-world engineering problems from industry with the guidance of faculty mentors.
- Industry Liaison Activities: Through the Executive Director for Innovation, External Engagement, and Industry Relations, the University is able to catalyze new interactions between faculty, potential commercial partners, and other research organizations. The OVPR Executive Director enhances existing efforts of industry liaisons across the University whose mission includes outreach to scientists and engineers from industry. These individuals establish partnerships with industry at many levels, from student internships and senior design projects, to the formation of large, industry or federally sponsored research projects and collaborations. In addition, industry liaisons work with chambers of commerce, trade associations, supply chains, and OEMs to broaden awareness of UConn's research capabilities and leverage state and federal programs (e.g. Connecticut Innovations, DECD, federal sponsors, etc. as described below) to establish and strengthen partnerships between UConn faculty and industry partners.
- Student internships through UConn's Center for Career Services, the UConn Innovate Stamford Program, the Partnership in Innovation and Education, and many individual departments.
- Industry sponsorship of undergraduate and graduate research students through research grants.
- Institute of Materials Science (IMS) Industrial Affiliates Program: Since 1974, the program has provided companies with access to UConn resources that can assist

industry with materials-related research, development, and production projects. The program is administered through IMS.

The UConn Technology Incubation Program (TIP), which offers incubator facilities at two locations across the state (Storrs and Farmington) is able to provide technology-based startup companies access to a unique range of unparalleled resources, including:

- Incubator facilities featuring offices, wet labs, and access to instrumentation.
- Collaboration with scientific experts.
- Technically trained student interns, employees, and graduates.
- UConn’s world-class library resources.
- Customized business educational events, planning assistance, and mentoring.
- Access to venture funding.

The following table reflects positive growth in TIP:

	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Companies in Program	29	26	20	26	30	40	35
Capital Raised (\$M)	\$29.1	\$8.6	\$41.9	\$19.1	\$51.9	\$89.2	\$69.0
Revenue (\$M)	\$4.5	\$5.8	\$1.6	\$1.2	\$3.1	\$7.1	\$9.0
Taxes Paid (\$M)	Didn't collect	\$0.4	\$0.4	\$0.4	\$0.6	\$0.8	\$1.3
Full-Time Jobs	84	66	61	66	81	118	106
Part-Time Jobs	33	49	38	38	56	53	62
Company Patents Filed	37	60	62	38	74	41	103
Company Patents Granted	22	27	19	12	43	34	48
Company Patents in Process	19	50	40	57	60	49	65

Note that the number of companies in TIP varies based on available space and square footage needs of the current incubator companies. Our leasing practices allow these startups to increase and decrease space as needed. While the number of companies in the program has fluctuated since FY13, this occurs due to graduation of some companies and the entry of others, which happens on a rolling basis. The overall number of companies has grown due to the opening of the new facility at UConn Health in January 2016, which drastically increased the program’s available space. The new facility now features 32 new state-of-the-art labs and 40 offices, bringing the total space to 45 labs and almost 58 offices. The current space is 92% occupied.

The University engaged with Connecticut Innovations (CI) and Battelle in 2014 by way of an MOU to identify opportunities for faculty-industry collaboration and to help advance the goals of NextGenCT utilizing the following programs:

- Department of Economic & Community Development (DECD):
 - Connecticut Manufacturing Innovation Fund (MIF) administered through DECD to assist the manufacturing industry to innovate commercial products and services and help drive enhancement in, or development of, products or services designed to strengthen their competitive position. The MIF supports competitive initiatives in the following areas:
 - Voucher Program (DECD/CCAT) – It is designed to help keep pace with the state-of-the-art product development and manufacturing technology. The program provides companies with access to the expertise they need to become more efficient, productive, and profitable.
 - Incumbent Worker Training Program (DECD/DOL) – The program provides financial assistance to train incumbent workers in the appropriate skills to meet current and emerging market needs.
 - Apprenticeship Program (DECD/DOL) – To support a combination of on-the-job training and classroom instruction for apprentices in Connecticut’s manufacturing industry. Grants awarded through the program can be used for wage subsidy, tuition reimbursement, and to offset the costs of gaining appropriate credentials for apprentices.
- CT Bioscience Innovation Fund, which creates the opportunity to develop collaborations with UConn faculty and industry partners to leverage external funds from federal agencies (administered through CI).
- Technology Talent Bridge (TTB) – A program that connects student interns with work on relevant projects and companies within the state (administered through CI).
- Multiple collaborations between the University and CCAT to spur innovation within the state’s manufacturing sector and facilitate access to state and federal support.
- Eli Whitney Equity Fund – Provides R&D support and research space to innovative companies receiving investment from CI.

A summary of University and joint University-industry intellectual property activities, including the number of disclosures, patents, licenses, new businesses and entrepreneurial activities established with University technologies:

The mission of Technology Commercialization Services within the Office of the Vice President for Research is to expedite and facilitate the transformation of UConn discoveries into products and services that benefit society and drive economic growth and job creation. The goals are to bring together UConn researchers and the business community in order to significantly enhance the commercial and societal impact of UConn’s research; identify and help move inventions by UConn faculty, staff, and students towards the market through licensing or new company formation; secure patent protection for new technologies where warranted by market forces; and generate industrial support for ongoing applied/translational research projects.

University inventions have led to more than 650 US Patents with 30 US patents issued to UConn inventors in FY19 alone. Additionally, many of our faculty have more intellectual property and patents based on their work at other institutions.

Recent state initiatives, such as Next Generation Connecticut and Bioscience Connecticut, have enhanced the University’s role as a center for innovation, but reduced state funding for new faculty hires has substantially limited its capacity to maximize the hoped for return on

investment. A new \$169.5 million UConn Technology Park with an anchor facility, the Innovation Partnership Building, designed to house industry-academic research collaborations, officially opened in September 2018 and will continue to develop and grow industry relationships and entrepreneurship at the University. These initiatives will provide a robust pipeline of innovation, talent, and unique research facilities for technology development, business incubation, and growth.

Identification of research and innovation benchmarks and an analysis of the University’s progress in meeting such benchmarks:

More than eighty research centers, institutes, and programs serve UConn’s teaching, research, diversity, and outreach missions. Undergraduate, graduate, and faculty research at the University drives business development and enhances quality of life. UConn’s research operations make real and vital contributions to the state’s economy. Research dollars enter the Connecticut economy through UConn, but the impact does not end there. Through the bold NextGenCT initiative, the state’s economic development will be fueled.

Experience indicates that there is no uniform approach to technology licensing that will meet the needs of our diverse industry partners. The University is committed to working with its partners to provide the intellectual property rights necessary to meet company goals.

Licensing and Commercialization:

	FY 2013 (Base)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Invention Disclosures Received	71	59	93	69	61	71	90
Patent Applications Filed	95	86	113	91	89	83	105
Patents Issued	20	21	28	31	28	39	30
Licenses & Options Executed	19	22	10	11	10	26	21
Licensing Revenue (\$M)	\$1.0	\$1.7	\$1.1	\$1.0	\$1.7	\$0.9	\$0.7
Startup Companies Formed	4	5	3	2	1	6	15

Year to year fluctuations in disclosures received is not unusual. The ten-year average is 75 disclosures received. The 93 disclosures received in FY 2015 was the highest since the formation of the Technology Commercialization office. There was a spike in licensing revenue in FY14 due to the one-time sale of patent rights to a large international company, and in FY17 due to a one-time settlement for underpaid royalties that had been identified during an audit of the licensee’s books. Also, while not evident from the figures in the table, the percentage of licensing revenue attributable to running royalties is trending upward.

The table below measures UConn against our peers using normalized data based on research expenditures, which is accepted as the chief factor driving innovation.

UConn vs. Peers FY13-17, normalized to \$100M research expenditures

Institution	Invention Disclosures Received	Patent Applications Filed	Patents Issued	Licenses & Options Executed	Licensing Revenue (\$K)	Startup Companies Formed
UConn	39.2	23.8	16.7	9.0	\$660.3	2.0
Indiana University	41.2	20.4	8.4	8.5	1,346.8	1.9
Michigan State University	24.0	8.4	7.2	10.6	\$880.7	0.4
Purdue University	54.0	29.9	17.3	20.3	\$995.0	3.4
University of Delaware	36.2	51.7	7.6	5.7	\$208.9	3.0
University of Georgia	42.0	11.9	10.9	41.5	\$1,938.6	1.3
University of Kansas	31.5	16.7	12.2	13.4	\$4,340.7	1.4
University of Kentucky	23.6	8.1	12.4	3.3	\$1,556.2	1.8
Peer Average	36.1	21.0	10.9	14.8	\$1,609.6	1.9

*Based on annual AUTM Survey Data. The University of Utah did not respond to the AUTM survey for a portion of this reporting period. Their data has been omitted for that reason.

With the exception of licenses & options executed and licensing revenue, UConn faculty have exceeded the peer average in all other categories in the table above which is reflective of our commitment to growing licensing and commercialization at UConn and UConn Health.

CAPITAL PROGRAM

The Board of Trustees, at its June 26, 2019 meeting, approved the FY20 Capital Budget totaling \$250,000,000 as shown in Exhibit A. This amount reflects \$197,200,000 of State bond funds, \$52,800,000 of University funds.

Storrs & Regional Campuses

The following is a brief description of some of the named projects included in the FY20 Capital Budget or previous budgets, which are currently in planning, design or construction.

Academic and Research Facilities



The Homer Babbidge Library was constructed in 1978. The building was designed around the traditional library model at the time, which included an extended stack footprint and a focus on printed circulated collections. As technology has advanced, informational resources are more available to students and faculty through different mediums, and the library model has changed to one focused on group study, collaboration, innovation, social media and technology-enhanced instruction.

A ten-year Library Master Plan was developed in 2016 and portions of the work were implemented to create sufficient space to complete a larger renovation of the building (i.e. Homer Babbidge Library Level 1 Renovation, Q&W Tutorial Center Relocation and Level 4 Event Space Renovation). The Homer Babbidge Library Renovation project – Phase 1 comprises the construction of an exterior code required egress and improvements to the building wayfinding, along with other small improvements. The Library will remain operational during the renovation. The project is currently in the bidding phase with construction commencing spring 2020 with completion Fall 2020.

The 285,000 gross square foot Gant Science Complex will be renovated to accommodate current and future University needs in response to growing student enrollment in STEM programs. These improvements will include classrooms, lecture halls, teaching and research laboratories, faculty offices and support spaces. Exterior site and plaza areas will be improved to make them more inviting and accessible to the campus community. The building envelope (façades and roofs) will be reconstructed to provide a more attractive waterproof skin with better energy performance. A new light court will be built that encloses the existing opening at the Gant Plaza.. Phased construction began in Winter 2018 and will be complete in Winter 2024.



The STEM Research Center Science 1 building is a keystone in the effort to fulfill the mandates of Next Generation Connecticut and will provide critical new research facilities for the existing and new STEM faculty. The 200,000 square foot research facility will be designed to meet some of current and future programmatic requirements of the University as it seeks to balance the anticipated rise in student enrollment in STEM programs with future programmatic research

needs. Design for the new facility is underway and anticipated to be complete in Fall 2019 with a construction start in Spring 2020.



Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum and Utility, Administrative and Support Facilities

Per statute, the “deferred maintenance” portion of the project name is defined as “repair of an infrastructure or structure that was not maintained, repaired or replaced in the usual course of maintenance and repair.” In addition, the University intentionally designs projects to repair under-maintained facilities and infrastructure up to current standards and with necessary improvements to accommodate the current needs of the campuses. Also, the recently enacted statutory named line clarification and new definition allows the University to construct new utility, infrastructure, administrative and support facilities as needed. In general, projects fall into one or more of the following categories:

- Safety, code and ADA required improvements
- Roof and exterior repairs
- Building mechanical system improvements
- Utilities repairs and upgrades
- General building renovations
- Roads, walks and grounds
- Environmental remediation
- New utility, infrastructure, administrative and support facilities

Some of the major projects to be funded within this category during FY20 are the Central Utility Plant Equipment & Pumping Improvements, Infrastructure and Grounds projects (Northwest Science Quad Phase II, South Campus Commons, Boiler Plant Equipment Replacement and Utility Tunnel Connection), the new Northwest Quad Supplemental Utility Plant, and various programmatic renovations. Three of the projects currently underway in this category are summarized below.

Supplemental Utility Plant

The University produces or treats and distributes its own electrical power, steam, chilled water domestic water, reclaimed water, and sanitary waste for use on campus. Utility modelling has shown that additional chilled water, steam, and electrical power will be needed to support the development of the Storrs Campus as projected by the University Master Plan and Next Generation Connecticut Capital Plan. These additional loads will be produced in and distributed from a new Supplemental Utility Plant (SUP) located in the Northwest section of campus

The SUP will be constructed in 2 phases:

Phase I includes a new building and the following equipment; four new chillers, and two electric generators to support the new STEM Research Center Science 1 and the renovated Gant Science Complex. The SUP will also include space for a new steam boiler to replace an aging boiler, which is currently located at the Central Utility Plant. Construction documents were completed in July 2019 and the project will be bid through October 2019. Construction is planned to begin in Spring 2020 and be completed in Fall 2021.

Phase II will include an addition to the building constructed in Phase I and will house two tri-generation turbines. The addition of these turbines will increase the on campus electrical production capacity to align with planned future campus peak demands. As of Fall 2019, Phase II is on hold pending completion of a feasibility study to determine whether the increased electrical demand can be produced using renewable energy sources such as solar power.



Central Utility Plant Equipment & Pumping Improvements

The University produces and distributes chilled water for cooling from the Central Utility Plant (CUP) and the Cogen plant utilizing two gas fired chillers, two electric centrifugal chillers, and four evaporative cooling towers located in the CUP, and four steam turbine chillers and nine evaporative cooling towers located in the Cogen facility. A study was commissioned to review reliability, production, and distribution of chilled water to ensure that existing and future needs could be met. The study revealed that the full plant chilled water production capacity could not be effectively distributed to campus with the current piping configuration within the CUP. Additionally, the study showed that immediate replacement of two of the four CUP chillers and the CUP cooling towers was necessary as they have reached the end of their useful life. Accordingly the project replaces two chillers, two cooling towers and reconfigures the distribution piping with the CUP to maximize the efficiency of chilled water distributed to the campus. The project is currently in construction and will be completed in the Spring of 2020.

Stamford Parking Garage and Surface Parking

The Stamford Parking Garage is a three level steel and concrete structure located on approximately 4 acres at the Stamford Campus. The site is at the intersection of Washington Avenue and Broad Street, with the Mill River at the west border and 11 occupied residential lots to the north. An engineering firm was retained to assess the condition of the parking garage. A report issued in February of 2017 determined that the garage was beyond its useful life and should be demolished at the earliest opportunity. The garage and the site soil tested positive for environmental conditions and a design consultant was retained to produce contract documents and assist in the permitting process. This project is for



the demolition and disposal of the existing parking structure and the garage site remediation as required for the surface parking project. In Fall 2018, the Stamford Campus Surface Parking will accommodate approximately 300 parking spaces with on-grade connectivity to Mill River Park. Construction has been phased to allow for partial opening of the lot while EPA approval and access agreements are obtained from the abutting properties. Construction and phase 2 of the site remediation was completed in the Fall of 2019.

Equipment, Library Collections & Telecommunications

The enhancement of the University's infrastructure includes its instructional and scientific equipment. The equipment replacement category permits the University to replace outmoded items with state of the art laboratory devices and computers. The funding encompasses seven major categories: management information systems, computers, research equipment, instructional equipment, furnishings, operational and public safety support, and library materials.

Farm Buildings Repair/Replacement

The Spring Hill Farm Animal Biosafety Level 2 Facility is a new standalone animal research facility. The facility will be located at the Spring Hill Farm along RT 195. Animal research to include poultry, swine and bovine. Construction began in Winter 2018 and was completed in Summer 2019.



Fine Arts Phase II

Numerous planning and design studies performed since 1991 have evaluated the needs of the School of Fine Arts. In response to these studies, the Storrs Center initiative, and the dispersal of the School of Fine Arts (SFA) facilities throughout the Storrs and Depot campuses since 1991, a Master Plan has assessed the condition of the current facilities, updated the program requirements of the School, and made draft recommendations to guide the use of UCONN 2000 funds for the School. The plan defines a series of individual projects to support the School and to improve the gateway to the campus at Bolton and Storrs Roads, facing the new Storrs Center. Phase I of the gateway project was approved by the Board of Trustees and completed in 2014.

The current scope of this Fine Arts project includes a 30,000 square foot addition to the existing Drama/Music Building and Nafe Katter Theater to serve as a centralized shops and theater production facility. The addition will also provide a critical linkage that does not currently exist



between Fine Arts buildings, accessible access to the second floor of the Drama/Music Building and a new entry lobby on the north side of the complex. The project also includes removal and replacement of the exterior glazing systems on the Storrs Road and Bolton Road sides of the building. Lastly, the project includes some site improvements, new roofing and the creation of a plaza on the north side of the addition. Construction began in Summer 2018 with anticipated completion in Winter 2020.

Intramural, Recreation & Collegiate Facilities

The Board of Trustees approved the *Campus Master Plan 2015-2035* in February 2015 and authorized its use as a basis of design for capital projects. For the Athletics District, the Masterplan stated that “Many of UConn’s athletics programs are in need of upgrades to facilities, either to address deferred maintenance in existing buildings, expand seating capacity, offer new amenities, or provide more desirable space to attract top student athletes to the University.”

This Athletic District Development will replace existing outdated facilities with new stadia for baseball, softball and soccer. The project includes a new Performance Center, approximately 50,000 sf, which consists of new team and coach locker rooms, coaches’ offices, equipment room, strength and conditioning, athletic training, hydro-therapy pools, conference room, video room and associated support spaces. This project also includes a new multi-purpose field that supports both Athletics and the Student Recreation departments. This new field will support activities such as lacrosse, soccer, and other club sports. Construction of enabling infrastructure work began in the Fall of 2018 with completion of stadia facilities and the Performance Center in Winter 2021.



Recreation Center & Infrastructure Upgrade

In order to provide the unmet needs of the campus, a new 200,000 square foot building is currently under construction with completion expected in the Summer of 2019. The new facility will include activity spaces for cardiovascular and strength training facilities, racquetball courts, basketball courts, a running track, multipurpose sports area, an aquatics center, indoor and outdoor spaces for club sports, and flexible space for events and activities for use by the students and the UConn community. The site enabling and utility infrastructure work related to the Student Recreation Center project started in the Summer of 2016 with the demolition of the Connecticut Commons Residence Halls, with re-routing of various utilities including chilled water, steam and electrical service completed in Summer 2019.



Residential Life Facilities

This named project represents the overarching authorization to undertake activities to provide housing and dining facilities for the University’s students. Although the quantity and the diversity of campus living arrangements were expanded under the first two phases of UCONN 2000, much remains to be done. Funding will support improvements to current dormitory amenities and other deferred maintenance needs in all of the residential and dining facilities. Construction of a new residence hall, the Peter J. Werth Residence Tower, was completed in 2016 and renovations of the older dormitories and dining halls and code improvements are continuously ongoing.



The most recently completed renovation was of the upper level of the Whitney Dining Hall in Summer 2019.

Technology Quadrant Phase III

Public Act 14-98 provides funding in the amount of \$169.5 million for the UConn Technology Park project and allows this project to be managed through the authority of the UCONN 2000 program. This project provides for the development of the first building in a Technology Park located along Discovery Drive.



The initial facility consists of an 113,000 square foot Innovation Partnership Building that will house world-class equipment and offer shared laboratories for use by industry scientists and business entrepreneurs as they work side-by-side with the University's research faculty. Construction began in July 2015 and the initial building was completed in Summer 2017 with fit-out of various lab spaces completing in 2020.

UConn Health

FY 18 was the final year for funding for UConn Health Projects; therefore, there are no named projects in the current Capital budget.

UCONN 2000: SET-ASIDE CONTRACTOR

Public Act 99-241 called for, among other things, information regarding use of Connecticut owned businesses on UCONN 2000 program projects, including those owned by women and minorities ("set-aside" contractors). Since Fiscal Year 1996, construction and related contracts for the UCONN 2000 program totaled \$4.0 billion from all fund sources; \$3.2 billion is strictly UCONN 2000 funds. As of January 2020, Connecticut businesses have accounted for \$2.65 billion of the total contracted dollars with "set-aside" general contractors and subcontractors accounting for \$822.2 million. Overall, small business participation has amounted to \$468.1 million, minority business participation has amounted to \$100.2 million, and women-owned business participation has amounted to \$254.8 million.

UCONN 2000: FINANCE

Pursuant to Section 10a-109x of the Connecticut General Statutes, the semi-annual report to the General Assembly is to provide, among other things, information on the number of projects and securities authorized, approved and issued; the payment of debt service requirements, and the payment of principal and interest on the UCONN 2000 securities; and the amount of investment earnings. This section provides that information.

As of June 26, 2019 the Connecticut General Assembly considered passing Senate Bill 876 "An Act Authorizing and Adjusting Bonds of the State for Capital Improvements, Transportation and Other Purposes" that which among other things, reallocated the authorized Debt Service Commitment ("DSC") debt funding paid for by the State among the fiscal years 2020 through 2027 contained in the Act but did not change the total DSC amount authorized for UCONN 2000 projects. As of December 20, 2019 no actions were taken impacting the UCONN 2000 program.

During October 2017, the Connecticut General Assembly passed Public Act No. 17-2 and the Governor signed on October 31, 2017 “An Act Concerning the State Budget for the Biennium Ending June 30, 2019, Making Appropriations Therefor, Authorizing and Adjusting Bonds of the State And Implementing Provisions of the Budget” that which among other things, moved some of the authorized DSC bond funding from fiscal years 2018 through 2023 and added it to 2024, and the newly added fiscal years 2025, 2026 and 2027 (without changing total DSC funding); and changed the name of the UCONN 2000 project “Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum” to “Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum and Utility, Administrative and Support Facilities” and UConn Health’s UCONN 2000 named project formally known as “Deferred Maintenance/Code/ADA Renovation Sum — Health Center” to the new UCONN 2000 project name of “Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure & Improvements Renovation Lump Sum and Utility, Administrative and Support Facilities – Health Center”.

During the May 2016 Special Session, the Connecticut General Assembly passed Public Act No. 16-4 effective July 1, 2016 which among other things changed the name of the UCONN 2000 project “Deferred Maintenance/Code/ADA Renovation Lump Sum” to “Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum” and also shifted \$26,000,000 of Debt Service Commitment authorizations from Fiscal Year 2017 to Fiscal Year 2018.

During May 2014, the Connecticut General Assembly passed Public Act 14-98 which clarified that the language in the UCONN 2000 legislation limiting UCONN 2000 debt applied only to the debt service commitment debt that the State pays and the limit does not apply to UCONN 2000 Special Obligation Student Fee Revenue bonds and other types of UCONN 2000 debt which the University and not the State pays. Public Act 14-5 was also signed in May 2014 and eliminated certain UCONN 2000 Act language that limited leasing outside the Storrs Campus.

In July 2013, the Connecticut General Assembly passed Public Act 13-233, “An Act Concerning Next Generation Connecticut”, which extended the UCONN 2000 program another six years until Fiscal Year 2024; increased the statutory authorizations for the UCONN 2000 bonds secured by the State’s debt service commitment by \$1.551 billion for a total of \$4,282,900,000; changed certain fiscal year bond authorizations; added a new named project called “Academic and Research Facilities”; and also added the housing language to the “Stamford Campus Improvements/Housing” project.

In July 2011, the Connecticut General Assembly passed Public Act 11-75, “An Act Concerning the University of Connecticut Health Center”, the Bioscience Connecticut initiative, which increased the statutory authorizations for the UCONN 2000 bonds secured by the State’s debt service commitment by \$262,900,000 for a total of \$2,731,900,000; changed certain fiscal year bond authorizations; eliminated a prior provision relating to the \$100 million contribution of federal, private or other non-state money; and provided for funding to renovate research laboratory space and create additional business incubator space.

On August 25, 2011, the Governor signed Public Act 11-57 for creation of a world-class Technology Park on the Storrs Campus to serve as a cornerstone for a new Connecticut research triangle. The Technology Park is expected to generate hundreds of new jobs in Connecticut,

encourage new business growth, and leverage millions of dollars in federal and private research funding. The Technology Park will link to UConn Health in Farmington, the Connecticut Bioscience Initiative to Yale University in New Haven and others. A total of \$169.5 million of State General Obligation bond funding was authorized by the State Bond Commission for the Technology Park. On August 26, 2011, the State Bond Commission authorized the first \$18 million of State General Obligation bonding to begin planning and design. On April 26, 2013, the State Bond Commission authorized the release of \$20 million in State General Obligation bonding to cover the purchase of equipment. On May 11, 2015, the State Bond Commission authorized the release of \$131.5 million in State General Obligation bonding to fund the construction of the new facility.

During the October 2011 special session, the Connecticut General Assembly adopted Public Act 11-2 which established the Connecticut Bioscience Collaboration Program (the “Collaboration”) and authorized \$290,685,000 of State general obligation bonds to be issued over a ten-year period and to be deposited in the Connecticut Bioscience Collaboration Fund. The Collaboration supported the establishment of a bioscience cluster anchored by the Jackson Laboratory for Genomic Medicine, a research laboratory located on UConn Health’s Farmington campus.

In fiscal year 2002, the Connecticut General Assembly enacted and the Governor signed into law PA No. 02-3, An Act Concerning 21st Century UConn (Act). The Act authorized additional projects for the University and UConn Health for Phase III of UCONN 2000. This Act amended PA No. 95-230 and extended the UCONN 2000 financing program.

Public Act (PA) No. 95-230 enabled the University to borrow money in its own name for a special 10-year capital improvement program designed to modernize, rehabilitate, and expand the physical plant of the University (UCONN 2000). It authorized projects for Phases I and II of UCONN 2000, estimated to cost \$1,250 million, of which \$962 million was financed by bonds of the University secured by the State Debt Service Commitment; \$18 million was funded by State General Obligation Bonds; and the balance of \$270 million was financed by gifts, other revenue, or borrowing resources of the University, including Special Obligation Student Fee Revenue bonds.

General Obligation Bonds

Section 10a-109 of the Connecticut General Statutes empowers the University to issue General Obligation Bonds secured by the State’s Debt Service Commitment (sometimes referred to as “General Obligation Debt Service Commitment Bonds” or “GO-DSC Bonds”). These Bonds are issued pursuant to the General Obligation Master Indenture of Trust, dated as of November 1, 1995, between the University of Connecticut, as Issuer, and Fleet National Bank of Connecticut as Trustee (now U.S. Bank N.A.). The University’s Board of Trustees on November 10, 1995, and the State Bond Commission on December 21, 1995 approved the Master Indenture of Trust. The Master Indenture was subsequently amended and approved by the University’s Board of Trustees on September 26, 2003 and the State Bond Commission on December 19, 2003. The Board of Trustees and the Governor approve the subsequent Supplemental Indentures for each bond issue. The University and the Office of the State Treasurer, working in conjunction, manage the GO-DSC Bond sale process.

General Obligation Bond Issues Completed

As of December 31, 2019, there were 33 bond issues for the UCONN 2000 program including 11 refunding bond issues under the State's DSC. Pursuant to Section 10a-109g of the Connecticut General Statutes, the UCONN 2000 GO-DSC Bonds authorized, approved and issued to date are listed below:

<u>UCONN 2000 GO-DSC Bonds Phase I, II & III</u>			
<u>Date of Issue</u>	<u>Par Amount</u>	<u>TIC</u> ⁽¹⁾	<u>Bond Issue</u>
February 21, 1996	\$83,929,714.85	4.94%	1996 Series A
April 24, 1997	124,392,431.65	5.48%	1997 Series A
June 24, 1998	99,520,000.00	4.78%	1998 Series A
April 8, 1999	79,735,000.00	4.46%	1999 Series A
March 29, 2000	130,850,000.00	5.42%	2000 Series A
April 11, 2001	100,000,000.00	4.54%	2001 Series A
April 18, 2002	100,000,000.00	4.74%	2002 Series A ⁽²⁾
March 26, 2003	96,210,000.00	3.97%	2003 Series A ⁽³⁾
January 22, 2004	97,845,000.00	3.76%	2004 Series A ⁽⁴⁾
March 16, 2005	98,110,000.00	4.20%	2005 Series A ⁽⁵⁾
March 15, 2006	77,145,000.00	4.20%	2006 Series A ⁽⁶⁾
April 12, 2007	89,355,000.00	4.10%	2007 Series A ⁽⁷⁾
April 16, 2009	144,855,000.00	4.01%	2009 Series A ⁽⁸⁾
May 25, 2010	97,115,000.00	3.64%	2010 Series A ⁽⁹⁾
December 12, 2011	179,730,000.00	3.31%	2011 Series A ⁽¹⁰⁾
July 31, 2013	172,660,000.00	3.58%	2013 Series A ⁽¹¹⁾
April 22, 2014	109,050,000.00	3.37%	2014 Series A ⁽¹²⁾
April 16, 2015	220,165,000.00	3.09%	2015 Series A ⁽¹³⁾
April 21, 2016	261,510,000.00	2.76%	2016 Series A ⁽¹⁴⁾
January 19, 2017	311,200,000.00	3.42%	2017 Series A ⁽¹⁵⁾
May 3, 2018	276,075,000.00	3.65%	2018 Series A ⁽¹⁶⁾
<u>May 8, 2019</u>	<u>174,785,000.00</u>	3.03%	2019 Series A ⁽¹⁷⁾
Subtotal Phases I,II & III	\$3,124,237,146.50		
<u>Refunding Bonds</u>			
January 29, 2004	\$216,950,000.00	3.55%	2004 Series A Refunding ⁽⁴⁾
March 15, 2006	61,020,000.00	4.17%	2006 Series A Refunding ⁽⁶⁾
April 12, 2007	46,030,000.00	4.19%	2007 Series A Refunding ⁽⁷⁾
May 25, 2010	36,095,000.00	2.86%	2010 Series A Refunding ⁽⁹⁾
December 12, 2011	31,905,000.00	2.29%	2011 Series A Refunding ⁽¹⁰⁾
July 31, 2013	51,250,000.00	2.71%	2013 Series A Refunding ⁽¹¹⁾
April 22, 2014	92,940,000.00	1.41%	2014 Series A Refunding ⁽¹²⁾
April 16, 2015	34,625,000.00	2.15%	2015 Series A Refunding ⁽¹³⁾
April 21, 2016	80,425,000.00	1.70%	2016 Series A Refunding ⁽¹⁴⁾
January 19, 2017	33,950,000.00	2.01%	2017 Series A Refunding ⁽¹⁵⁾
<u>May 8, 2019</u>	<u>64,680,000.00</u>	2.23%	2019 Series A Refunding ⁽¹⁷⁾
Subtotal Refunding Bonds	\$749,870,000.00		
Total GO-DSC Bonds	<u>\$3,874,107,146.50</u>		

- (1) TIC is the true interest cost reflecting the interest rate for the time value of money across an entire bond issue.
- (2) The GO-DSC 2002 Series A Bonds provided \$994,688.03 directly to the Office of the State Treasurer.
- (3) The GO-DSC 2003 Series A Bonds par amount of \$96,210,000 plus \$3,790,000 of the original issue premium totaled \$100,000,000 available for projects.
- (4) The GO-DSC 2004 Series A Bonds new money and GO-DSC Refunding 2004 Series A Bonds were issued under a single Official Statement with a par amount of \$216,950,000. The GO-DSC 2004 new money bonds totaled \$100,000,000 for projects, funded by the \$97,845,000 par amount plus \$2,155,000 of the original issue premium; and the GO-DSC Refunding 2004 Series A Bonds provided \$223,160,000 for a refunding escrow. Additional proceeds, including premium, funded the refunding escrow and the costs of issuance.
- (5) The GO-DSC 2005 Series A Bonds totaled \$100,000,000 available for projects funded by the \$98,110,000 par amount plus \$1,890,000 of the original issue premium. Phase II authorizations accounted for \$50 million and Phase III for \$50 million.
- (6) The GO-DSC 2006 Series A Bonds new money and GO-DSC Refunding 2006 Series A Bonds were issued under a single Official Statement with a par amount of \$138,165,000. The GO-DSC 2006 Series A Bonds new money totaled \$79,000,000 available for projects, funded by the \$77,145,000 par amount plus \$1,835,000 of the original issue premium, and the GO-DSC Refunding 2006 Series A Bonds provided \$65,472,900 for a refunding escrow. Additional proceeds, including premium, funded the refunding escrow and the costs of issuance.
- (7) The GO-DSC 2007 Series A Bonds new money and GO-DSC Refunding 2007 Series A Bonds were issued under a single Official Statement with a par amount of \$135,385,000. The GO-DSC 2007 Series A Bonds new money totaled \$89,000,000 available for projects, and the GO-DSC Refunding 2007 Series A Bonds provided \$49,505,476.89 for a refunding escrow. Additional proceeds, including premium, funded the refunding escrow and the costs of issuance.
- (8) The GO-DSC 2009 Series A Bonds par amount of \$144,855,000 plus \$5,145,000 of the original issue premium totaled \$150,000,000 available for projects.
- (9) The GO-DSC 2010 Series A Bonds new money and GO-DSC Refunding 2010 Series A Bonds were issued under a single Official Statement with a combined par amount of \$133,210,000. The GO-DSC 2010 Series A Bonds new money par amount of \$97,115,000 plus \$7,885,000 of the original issue premium totaled \$105,000,000 available for projects; and the GO-DSC Refunding 2010 Series A Bonds par amount of \$36,095,000 plus \$2,609,428.69 of the original issue premium provided \$38,704,428.69 for the refunding escrow. Additional proceeds, including premium, funded the costs of issuance.
- (10) The GO-DSC 2011 Series A Bonds new money and GO-DSC Refunding 2011 Series A Bonds were issued under a single Official Statement with a combined par amount of \$211,635,000. The GO-DSC 2011 Series A Bonds new money par amount of \$179,730,000 plus \$20,700,000 of the original issue premium totaled \$200,000,000 available for projects; and the GO-DSC Refunding 2011 Series A Bonds par amount of \$31,905,000 plus \$4,936,565.62 of the original issue premium provided \$36,841,565.62 for the refunding escrow. Additional proceeds, including premium, funded the costs of issuance.
- (11) The GO-DSC 2013 Series A Bonds new money and GO-DSC Refunding 2013 Series A Bonds were issued under a single Official Statement with a combined par amount of \$223,910,000. The GO-DSC 2013 Series A Bonds new money par amount of \$172,660,000

plus \$16,340,000 of the original issue premium totaled \$189,000,000 available for projects; and the GO-DSC Refunding 2013 Series A Bonds par amount of \$51,250,000 plus \$6,978,911.08 of the original issue premium provided \$58,228,911.08 for the refunding escrow. Additional proceeds, including premium, funded the costs of issuance.

- (12) The GO-DSC 2014 Series A Bonds new money and GO-DSC Refunding 2014 Series A Bonds were issued under a single Official Statement with a combined par amount of \$201,990,000. The GO-DSC 2014 Series A Bonds new money par amount of \$109,050,000 plus \$10,950,000 of the original issue premium totaled \$120,000,000 available for projects; and the GO-DSC Refunding 2014 Series A Bonds par amount of \$92,940,000 plus \$6,573,683.06 of the original issue premium provided \$99,513,683.06 for the refunding escrow. Additional proceeds, including premium, funded the costs of issuance.
- (13) The GO-DSC 2015 Series A Bonds new money and GO-DSC Refunding 2015 Series A Bonds were issued under a single Official Statement with a combined par amount of \$254,790,000. The GO-DSC 2015 Series A Bonds new money par amount of \$220,165,000 plus \$29,835,000 of the original issue premium totaled \$250,000,000 available for projects; and the GO-DSC Refunding 2015 Series A Bonds par amount of \$34,625,000 plus \$5,654,495.56 of the original issue premium totaled \$40,279,495.56 deposited to the refunding escrow. Additional proceeds, including premium, funded the costs of issuance.
- (14) The GO-DSC 2016 Series A Bonds new money and GO-DSC Refunding 2016 Series A Bonds were issued under a single Official Statement with a combined par amount of \$341,935,000. The GO-DSC 2016 Series A Bonds new money par amount of \$261,510,000 plus \$38,490,000 of the original issue premium totaled \$300,000,000 available for projects; and the GO-DSC Refunding 2016 Series A Bonds par amount of \$80,425,000 plus \$10,056,693.44 of the original issue premium totaled \$90,481,693.44 deposited to the refunding redemption fund and/or escrow. Additional proceeds, including premium, funded the costs of issuance.
- (15) The GO-DSC 2017 Series A Bonds new money and GO-DSC Refunding 2017 Series A Bonds were issued under a single Official Statement with a combined par amount of \$345,150,000. The GO-DSC 2017 Series A Bonds new money par amount of \$311,200,000 plus \$38,800,000 of the original issue premium totaled \$350,000,000 available for projects; and the GO-DSC Refunding 2017 Series A Bonds par amount of \$33,950,000 plus \$3,010,192.04 of the original issue premium totaled \$36,960,192.04 deposited to the refunding redemption fund and/or escrow. Additional proceeds, including premium, funded the costs of issuance.
- (16) The GO-DSC 2018 Series A Bonds were issued with a par amount of \$276,075,000 plus \$23,925,000 of the original issue premium funded \$300,000,000 for projects. Additional proceeds, including premium, funded the costs of issuance.
- (17) The GO-DSC 2019 Series A Bonds new money and GO-DSC Refunding 2019 Series A Bonds were issued under a single Official Statement with a combined par amount of \$239,465,000. The GO-DSC 2019 Series A Bonds new money par amount of \$174,785,000 plus \$25,215,000 of the original issue premium totaled \$200,000,000 available for projects; and the GO-DSC Refunding 2019 Series A Bonds par amount of \$64,680,000 plus \$8,133,086.38 of the original issue premium totaled \$72,813,086.38 deposited to the trustee bank redemption fund which was immediately used to call and refund all of the outstanding \$72,060,000 DSC 2009 bonds and pay the accrued interest on the same. Additional premium proceeds funded the costs of issuance.

There have been twenty-two UCONN 2000 GO-DSC Bonds issued to fund projects totaling \$3,124,237,146.50 in par value and provided \$3,344,000,000 for UCONN 2000 project spending (excluding the UCONN 2000 GO-DSC Refunding 2004, 2006, 2007, 2010, 2011, 2013, 2014, 2015, 2016 2017, and 2019 Series A Bonds). The remaining balance, together with accrued interest and net original issue premium, funded the costs of issuance including deposits to the State Treasurer pursuant to the indentures.

General Obligation Bonds – Projects

During Fiscal Year 2005, the University finished Phase I and Phase II and initiated Phase III of the UCONN 2000 project authorizations secured by the State’s DSC. The act provides for a total of \$4,282,900,000 of UCONN 2000 bonds secured by the State’s DSC. As of December 31, 2019, the following projects totaling \$3,543,600,000.00 have been authorized to receive GO-DSC Bond proceeds:

<u>Phases I & II</u>	<u>Authorized</u>
Agricultural Biotechnology Facility Completion	\$3,000,000.00
Agricultural Biotechnology Facility	9,400,000.00
Alumni Quadrant Renovations	11,183,623.91
Avery Point Marine Science Research Center-Phase I	30,000,000.00
Avery Point Marine Science Research Center-Phase II	7,254,246.03
Avery Point Renovation	4,875,717.46
Benton State Art Museum Addition	700,000.00
Business School Renovation	7,958,470.42
Central Warehouse New	6,933,751.77
Chemistry Building	53,062,000.00
Deferred Maintenance & Renovation Lump Sum	40,798,259.65
Deferred Maintenance & Renovation Lump Sum Balance	117,386,096.72
East Campus North Renovations	7,382,604.53
Equipment, Library Collections & Telecommunications	60,500,000.00
Equipment, Library Collections & Telecommunications Completion	105,812,000.00
Gant Plaza Deck	7,287,174.10
Gentry Renovation	9,664,596.69
Grad Dorm Renovations	2,928,227.59
Heating Plant Upgrade	9,969,000.00
Hilltop Dormitory Renovations	8,176,528.89
Ice Rink Enclosure	3,280,000.00
International House Conversion/(a.k.a. Museum of Natural History)	886,134.00
Litchfield Agricultural Center-Phase I	1,000,000.00
Mansfield Apartments Renovation	2,071,000.00
Mansfield Training School Improvements	3,500,000.00
Monteith Renovation	444,348.00
Music Drama Addition *	7,400,000.00
North Campus Renovation	10,996,050.15
North Superblock Site & Utilities	7,668,000.00
Northwest Quadrant Renovation-Phase I	2,001,000.00

Northwest Quadrant Renovation-Phase II	30,000,000.00
Parking Garage-North	9,658,000.00
Pedestrian Walkways/(a.k.a. Fairfield Road Pedestrian Mall)	6,074,000.00
School of Business	25,652,366.00
School of Pharmacy	88,609,000.00
Shippee/Buckley Renovations	6,920,000.00
South Campus Complex	12,251,000.00
Stamford Downtown Relocation-Phase I	55,781,471.55
Student Union Addition	44,622,633.00
Technology Quadrant-Phase IA	39,993,000.00
Technology Quadrant-Phase II	34,120,000.00
Torrey Life Science Renovation	251,109.43
Towers Renovation	17,950,243.11
Underground Steam & Water Upgrade	6,000,000.00
Underground Steam & Water Upgrade Completion	6,000,000.00
Waring Building Conversion	11,452,000.00
Waterbury Property Purchase	200,000.00
West Campus Renovations	519,507.20
White Building Renovation	2,427,268.80
<u>Wilbur Cross Building Renovation</u>	<u>19,999,571.00</u>
TOTAL PHASE I & II PROJECTS	\$962,000,000.00

** Board of Trustees added Project 2/22/2001*

Phase III - Storrs and Regional Campuses

	<u>Authorized</u>
Academic and Research Facilities	\$202,407,429.00
Arjona and Monteith (new classroom buildings)	128,219,870.93
Avery Point Campus Undergraduate and Library Building	10,461,245.77
Avery Point Renovation	8,327,447.54
Beach Hall Renovations	5,146,688.33
Benton State Art Museum Addition	2,903,508.88
Biobehavioral Complex Replacement	3,495,807.00
Bishop Renovation	2,480,140.83
Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum and Utility, Administrative and Support Facilities	608,148,916.12
Engineering Building (with Environmental Research Institute)	93,412,822.00
Equipment, Library Collections & Telecommunications	156,091,656.00
Family Studies (DRM) Renovation	2,868,306.20
Farm Buildings Repairs/Replacement	6,408,304.09
Fine Arts Phase II	40,708,924.00
Floriculture Greenhouse	6,691,798.67
Gant Building Renovations	12,455,770.32
Gentry Completion	9,628,208.95
Hartford Relocation Acquisition/Renovation	140,000,000.14

Heating Plant Upgrade	11,877,724.42
Intramural, Recreational and Intercollegiate Facilities	31,009,920.63
Jorgensen Renovation	3,934,474.58
Koons Hall Renovation/Addition	1,461,146.00
Lakeside Renovation	3,800,000.00
Law School Renovations/Improvements	16,660,677.09
Manchester Hall Renovation	772,577.13
Mansfield Training School Improvements	3,000,000.00
Natural History Museum Completion	500,000.00
North Hillside Road Completion	8,200,000.00
Old Central Warehouse *	126,000.00
Parking Garage #3	75,214.27
Psychology Building Renovation/Addition	24,337,399.00
Residential Life Facilities	140,972,476.01
School of Pharmacy/Biology Completion	6,000,000.00
Stamford Campus Improvements/Housing	1,500,870.00
Storrs Hall Addition	14,664,091.44
Student Union Addition	13,000,000.00
Support Facility (Architectural and Engineering Services)	16,583.05
Torrey Renovation Completion and Biology Expansion	1,530,373.00
Torrington Campus Improvements	369,156.42
Waterbury Downtown Campus	1,608,764.00
West Hartford Campus Renovations/Improvements	6,774,305.19
Young Building Renovation/Addition	<u>23,651,403.00</u>
Total – Storrs & Regionals Project List	1,755,700,000.00

UConn Health

CLAC Renovation Biosafety Level 3 Lab	15,901,465.91
Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure & Improvements Renovation Lump Sum and Utility, Administrative and Support Facilities - Health Center	50,951,263.91
Dental School Renovation	3,525,000.00
Equipment, Library Collections and Telecommunications – Health Center	116,429,390.00
Library/Student Computer Center Renovation	1,266,459.97
Main Building Renovation	117,484,315.91
Medical School Academic Building Renovation	39,792,488.00
Planning and Design Costs	25,000,000.00
Research Tower	67,992,229.21
Support Building Addition/Renovation	100,000.00
The University of Connecticut Health Center New Construction and Renovation	<u>387,457,387.09</u>
Total – UConn Health Project List	825,900,000.00
TOTAL PHASE III PROJECTS	<u>2,581,600,000.00</u>
TOTAL GO-DSC BONDS: PHASE I, II AND III PROJECTS	<u>\$3,543,600,000.00</u>

* The Old Central Warehouse was added by PA-07-108 effective 7-1-2007

General Obligation Bonds – Refundings

Pursuant to Section 10a-109 of the Connecticut General Statutes, the University may issue refunding securities. The University achieved a total of \$64.6 million in gross debt services savings for Connecticut taxpayers by issuing several series of GO-DSC Refunding Bonds as follows.

On January 29, 2004, the University achieved \$15.2 million in debt service savings for Connecticut taxpayers through the \$216,950,000 of UCONN 2000 GO-DSC Refunding 2004 Series A Bonds. Proceeds pre-refunded \$223,160,000 of the portions of the 1996, 1997, 1998, 2000, 2001 and 2002 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$15,215,582.84 on a gross cash debt service savings basis or \$10,117,718.77 on a net present value basis (4.53% savings over refunded bonds debt service) spread across fiscal years 2004 to 2020.

On March 15, 2006, the University achieved \$4.0 million in debt service savings through the issuance of \$61,020,000 of UCONN 2000 GO-DSC Refunding 2006 Series A Bonds. Proceeds pre-refunded \$61,675,000 of the portions of the 1998, 1999, 2000, 2001 and 2002 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$4,003,734.09 on a gross cash debt service savings basis or \$2,495,916.47 on a net present value basis (3.94% savings over refunded bonds debt service) spread across fiscal years 2006 to 2020.

On April 12, 2007, the University achieved \$1.7 million in debt service savings through the issuance of \$46,030,000 of UCONN 2000 GO-DSC Refunding 2007 Series A Bonds. Proceeds pre-refunded \$46,695,000 of the portions of the 2002 and 2003 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$1,680,056.23 on a gross cash debt service savings basis or \$1,387,269.87 on a net present value basis (2.97% savings over refunded bonds debt service) spread across fiscal years 2008 to 2022.

On May 25, 2010, the University achieved \$1.8 million in debt service savings through the issuance of \$36,095,000 of UCONN 2000 GO-DSC Refunding 2010 Series A Bonds. Proceeds pre-refunded \$35,885,000 of portions of the 1999, 2001, 2003 and 2004 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$1,791,739.17 on a gross cash debt service savings basis or \$1,470,720.91 on a net present value basis (4.1% savings over refunded bonds debt service) spread across fiscal years 2011 to 2021.

On December 12, 2011, the University achieved \$1.9 million in debt service savings through the issuance of \$31,905,000 of UCONN 2000 GO-DSC Refunding 2011 Series A Bonds. Proceeds pre-refunded \$33,735,000 of portions of the 2003 and 2004 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$1,918,938.89 on a gross cash debt service savings basis or \$1,680,287.49 on a net present value basis (5.0% savings over refunded bonds debt service) spread across fiscal years 2011 to 2021.

On July 31, 2013, the University achieved \$4.8 million in debt service savings through the issuance of \$51,250,000 of UCONN 2000 GO-DSC Refunding 2013 Series A Bonds. Proceeds pre-refunded \$54,375,000 of portions of the 2004 and 2005 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$4,768,953.75 on a gross cash debt service savings basis or

\$3,982,216.07 on a net present value basis (7.3% savings over refunded bonds debt service) spread across fiscal years 2014 to 2024.

On April 22, 2014, the University achieved \$8.5 million in debt service savings through the issuance of \$92,940,000 of UCONN 2000 GO-DSC Refunding 2014 Series A Bonds. Proceeds refunded \$97,930,000 of portions of the 2004 and 2005 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$8,491,280.28 on a gross cash debt service savings basis or \$7,697,944.62 on a net present value basis (7.9% savings over refunded bonds debt service) spread across fiscal years 2015 to 2025.

On April 16, 2015, the University achieved \$4.9 million in debt service savings through the issuance of \$34,625,000 of UCONN 2000 GO-DSC Refunding 2015 Series A Bonds. Proceeds refunded \$38,550,000 of certain maturities of the 2006 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$4,944,870.51 on a gross cash debt service savings basis or \$4,281,359.73 on a net present value basis (11.1% savings over refunded bonds debt service) spread across fiscal years 2016 to 2026.

On April 21, 2016, the University achieved \$7.8 million in debt service savings through the issuance of \$80,425,000 of UCONN 2000 GO-DSC Refunding 2016 Series A Bonds. Proceeds refunded \$46,535,000 of certain maturities of the 2006 UCONN 2000 GO-DSC Refunding Bonds and pre-refunded \$42,000,000 of certain maturities of the 2007 UCONN 2000 GO-DSC Bonds. Debt service savings amounted to \$8,489,980.00 on a gross cash debt service savings basis or \$7,751,484.82 on a net present value basis (8.8% savings over refunded bonds debt service) spread across fiscal years 2017 to 2027.

On January 19, 2017, the University achieved \$3.8 million in debt service savings through the issuance of \$33,950,000 of UCONN 2000 GO-DSC Refunding 2017 Series A Bonds. Proceeds refunded \$36,095,000 of the 2007 UCONN 2000 GO-DSC Refunding Bonds 2018 to 2022 maturities. Debt service savings amounted to \$3,763,591.11 on a gross cash debt service savings basis or \$3,295,890.33 on a net present value basis (9.1% savings over refunded bonds debt service) spread across fiscal years 2018 to 2022.

On May 8, 2019, the University achieved \$9.6 million in debt service savings through the issuance of \$64,680,000 of UCONN 2000 GO-DSC Refunding 2019 Series A Bonds. Proceeds refunded \$72,060,000 of the 2009 UCONN 2000 GO-DSC Refunding Bonds 2020 to 2029 maturities. Debt service savings amounted to \$9,567,690.89 on a gross cash debt service savings basis or \$8,110,020.66 on a net present value basis (11.25% over refunded bonds debt service) spread across fiscal years 2020 to 2029.

Special Obligation Student Fee Revenue Bonds

UCONN 2000 also authorizes the University to issue Special Obligation Revenue bonds. Unlike the UCONN 2000 GO-DSC Bonds that are paid from the State's General Fund, debt on the Special Obligation Bonds are paid from certain pledged revenues of the University as defined in the particular bond series indenture.

A Special Capital Reserve Fund may be established for UCONN 2000 Special Obligation bond issues only if the Board of Trustees determines that the Special Obligation bond issue is self-sufficient as defined in the Act. The self-sufficiency finding by the University must be submitted

to and confirmed as not unreasonable or arbitrary by the State Treasurer prior to issuance of the bonds. Once approved, the Special Capital Reserve Fund is funded at issuance by the University to meet the minimum capital reserve requirement.

Special Obligation Student Fee Revenue Bond Issues Completed

The UCONN 2000 Special Obligation Student Fee Revenue (“SO-SFR”) Bonds authorized, approved and issued to date are listed below.

SO-SFR Bonds have been issued pursuant to the Special Obligation Indenture of Trust, dated as of January 1, 1997, between the University as Issuer and U.S. Bank N.A. as successor to State Street Bank & Trust as Trustee (“the Special Obligation Master Indenture”). The Board of Trustees approved the Master Indenture on November 8, 1996. The University’s Board of Trustees and the Governor approve the subsequent Supplemental Indentures for each Special Obligation bond issue.

There have been seven bond issues, including three refundings, pursuant to the Student Fee Revenue Bond Indenture that are not secured by the State’s DSC. The University and the Office of the State Treasurer, working in conjunction, manage the Special Obligation Bond sale process. UCONN 2000 SO-SFR Bonds issued to date are summarized below:

UCONN 2000 SO-SFR Bonds

<u>Date of Issue</u>	<u>Par Amount</u>	<u>TIC</u> ⁽¹⁾	<u>Bond Issue</u>
February 4, 1998	\$ 33,560,000	5.08%	1998 Series A ⁽²⁾
June 1, 2000	\$ 89,570,000	6.02%	2000 Series A ⁽²⁾
February 14, 2002	\$ 75,430,000	4.94%	2002 Series A ⁽²⁾
March 29, 2018	\$141,725,000	4.03%	2018 Series A
February 27, 2002	\$ 96,130,000	4.89%	Refunding 2002 Series A ⁽²⁾
June 16, 2010	\$ 47,545,000	3.14%	Refunding 2010 Series A ⁽²⁾
December 13, 2012	\$ 87,980,000	2.44%	Refunding 2012 Series A

⁽¹⁾ TIC is the true interest cost reflecting the interest rate for the time value of money across an entire bond issue. The UCONN 2000 Special Obligation Bonds are generally issued for an approximate 30-year final maturity, compared to a 20-year final maturity for the GO-DSC Bonds; hence the TIC may appear relatively higher for Special Obligation Bonds.

⁽²⁾ Bonds are no longer outstanding.

On February 4, 1998, the University issued \$33,560,000 of UCONN 2000 Student Fee Revenue 1998 Series A Bonds with a final maturity of November 15, 2027. The Special Obligation First Supplemental Indenture was also dated January 1, 1997 and authorized the issuance of bonds up to a principal amount not to exceed \$30,000,000 for construction of the South Campus Residence and Dining Hall, plus amounts necessary to fund a Special Capital Reserve Fund (“SCRF”) and provide for costs of issuance. The University managed the issuance and sale of these bonds and realized a favorable true interest cost over the term. Debt service for these bonds is paid from pledged revenues as further defined in the Indenture of Trust. Such pledged revenues also help support future operation and maintenance costs for facilities built or renovated through UCONN 2000.

On June 1, 2000, the University issued \$89,570,000 of the UCONN 2000 Student Fee Revenue 2000 Series A Bonds pursuant to the Special Obligation Master Indenture and the SO-SFR Bonds Second Supplemental Indenture dated as of May 1, 2000. Bond proceeds funded \$87,000,000 of construction for the Hilltop Dormitory, Hilltop Student Rental Apartments, and Parking Garage South. They also provided for capitalized interest and costs of issuance. The \$89,570,000 Student Fee Revenue 2000 Series A Bonds were defeased in substance on February 27, 2002, as further described below, and are no longer reflected as outstanding debt on the University's financial statements.

On February 14, 2002, the University issued \$75,430,000 of the UCONN 2000 Student Fee Revenue 2002 Series A Bonds pursuant to the Special Obligation Master Indenture and the SO-SFR Bonds Fourth Supplemental Indenture dated as of November 16, 2001. Bond proceeds funded \$72,180,000 of construction for the Alumni Quadrant Renovations, Shippee/Buckley Renovations, East Campus North Renovations, Towers Renovations (including Greek Housing), and North Campus Renovations (including North Campus Student Suites and Apartments).

On March 29, 2018, the University issued \$141,725,000 of the UCONN 2000 Student Fee Revenue 2018 Series A Bonds pursuant to the Special Obligation Master Indenture and the SO-SFR Bonds Fifth Supplemental Indenture dated as of November 21, 2017. Bond proceeds funded \$152,000,000 of construction for the UCONN 2000 Project Intramural, Recreational and Intercollegiate Facilities including a new Student Recreation Center, associated infrastructure, and Stadia. They also funded capitalized interest and costs of issuance.

Special Obligation Student Fee Revenue Bonds - Projects

To date, ten projects have been authorized to receive \$374,180,000.00 of the UCONN 2000 SO-SFR Bond proceeds of which \$341,180,000 were issued (some of these projects were also supported by General Obligation bonds or other funding) as follows:

<u>Phase I & II</u>	<u>Authorized & Issued</u>
Alumni Quadrant Renovations	7,000,000.00
East Campus North Renovations	1,000,000.00
Hilltop Dormitory New	21,000,000.00
Hilltop Student Rental Apartments	42,000,000.00
North Campus Renovation (including North Campus Student Suites and Apartments)	45,000,000.00
Parking Garage-South	24,000,000.00
Shippee/Buckley Renovations	5,000,000.00
South Campus Complex	30,000,000.00
Towers Renovations (including Greek Housing)	14,180,000.00
TOTAL SO-SFR BONDS: PHASE I AND II PROJECTS	\$189,180,000.00

Phase III

Intramural, Recreational and Intercollegiate Facilities Authorized
 Intramural, Recreational and Intercollegiate Facilities Not Issued
TOTAL SO-SFR PHASE III BONDS AUTHORIZED&ISSUED

Authorized SFR 2018*

185,000,000.00
 (33,000,000.00)
\$152,000,000.00

*Although the SO-SFR Fifth Supplemental Indenture authorized \$185 million only \$152 million was issued by the SO-SFR 2018A bonds. The remaining \$33 million is not yet issued as of 6/30/2019 and not available to be spent.

Phase I, II & III

TOTAL SO-SFR BONDS AUTHORIZED
TOTAL SO-SFR BONDS NOT ISSUED
TOTAL SO-SFR BONDS AUTHORIZED&ISSUED

Authorized & Issued

\$374,180,000.00
(\$33,000,000.00)
\$341,180,000.00

Special Obligation Student Fee Revenue Bonds – Calls and Refundings

Pursuant to Section 10a-109 of the Connecticut General Statutes, the University may issue refunding securities. The University achieved a total of \$44.9 million in gross debt service savings (\$36.3 million net present value) for Connecticut taxpayers by issuing three series of SO-SFR Refunding Bonds as follows.

On February 27, 2002, the University achieved debt service savings of \$3,553,672 on a gross cash debt service savings basis or \$2,383,106 on a net present value basis (3.036% savings over refunded bonds debt service) through its issuance of \$96,130,000 of the UCONN 2000 Student Fee Revenue Refunding 2002 Series A Bonds. The bonds were issued pursuant to the Special Obligation Master Indenture and the SO-SFR Bonds Third Supplemental Indenture, dated as of February 1, 2002. Proceeds were used to take advantage of favorable market conditions to advance refund and defease in substance all of the \$89,570,000 of Student Fee Revenue 2000 Series A Bonds outstanding. Proceeds were deposited with the Trustee bank in an irrevocable escrow fund sufficient to satisfy future debt service and call premiums on the prior issue.

On June 16, 2010, the University achieved debt service savings of \$9,479,927 on a gross cash debt service savings basis or \$7,211,753 on a net present value basis (9.915% savings over refunded bonds debt service) (including the free up of \$2,126,425 of SCRF amounts), through its issuance of \$47,545,000 of the UCONN 2000 Student Fee Revenue Refunding 2010 Series A Bonds. The bonds were issued pursuant to the Special Obligation Master Indenture and the SO-SFR Bonds Third Supplemental Indenture, dated as of February 1, 2002. Proceeds were used to take advantage of favorable market conditions to refund, advance refund and defease in substance \$51,305,000 of prior bonds (including \$25,140,000 of the Student Fee Revenue 1998 Series A Bonds and \$26,165,000 of the Student Fee Revenue 2002 Series A Bonds outstanding). The par amount of \$47,545,000 plus \$4,267,926 of the original issue premium and \$2,126,425 from the 1998 Special Capital Reserve Fund release were deposited with the Trustee bank in a \$53,939,351.28 irrevocable escrow fund to satisfy future debt service and call premiums on the prior issues.

On December 13, 2012 the University achieved debt service savings of \$31,861,282.50 on a gross cash debt service savings basis or \$26,701,078.58 on a net present value basis (25.2% savings over refunded bonds debt service) spanning fiscal years 2013 thru 2030 by issuing

\$87,980,000 of the UCONN 2000 Student Fee Revenue Refunding 2012 Series A Bonds. We achieved a stunning Total Net Present Value Savings of \$26,701,078.58 or 25.2% of the refunded principal. Working in conjunction with the Office of the State Treasurer, the University negotiated a remarkable all in True Interest Cost of 2.48 % which is the lowest interest rate for a single bond issue in the history of the program. We refunded \$106,030,000 of prior bonds including \$32,430,000 of the SO-SFR 2002 A new money bonds (all of the outstanding), and \$73,600,000 of the SO-SFR Refunding 2002 A bonds (all of the outstanding). The par amount of \$87,980,000 plus \$19,690,291.67 of the original issue premium were deposited with the Trustee bank in a \$107,670,291.67 irrevocable escrow fund to satisfy future debt service and call premiums on the prior issues. The bonds were issued pursuant to the Special Obligation Master Indenture and the Special Obligation Student Fee Revenue Bonds Third Supplemental Indenture, dated as of February 1, 2002.

On November 15, 2019 the University achieved debt service savings of \$2,683,550 by calling and retiring at face value the outstanding principal of \$16,745,000 of Special Obligation Student Fee Revenue 2010 Refunding bonds on their call date of November 15, 2019, from available pledged revenues. Interest payments on the outstanding debt have an average coupon of 4.6% per year. Calling and retiring the \$16,745,000 principal eliminates the \$2,683,550 of scheduled interest payments, providing a 16% return on this transaction. The University pledged had been invested in the State Short Term Investment Fund which yields vary daily, but which averaged only 0.72% over the eight years prior to the call. The benefit of calling and retiring the \$16,745,000 bond principal eight years early minus the cost of earning an average of 0.72% per year results in a return of 9.66% in net present value savings of \$1,617,919 (9.66% of refunded par) in favor of retiring the bonds. Accordingly, the Board of Trustees approved the transaction on October 23, 2019, and University pledged revenues were wired to the Trustee bank's dedicated redemption account, pursuant to the indentures, sufficient to call and retire the outstanding \$16,745,000 SO-SFR REF 2010 principal at par on the day of the call. The original SO-SFR REF 2010-A Bonds refunded all of the outstanding SO-SFR 1998-A Bonds and part of the 2002-A Bonds as further described above.

CONN 2000 Heating Plant Upgrade Tax-Exempt Governmental Lease Purchase Agreement for the Cogeneration Facility

Pursuant to Section 10a-109 of the Connecticut General Statutes, the University may issue other UCONN 2000 securities pursuant to other financing documents. The Board of Trustees authorized \$81,900,000 of UCONN 2000 debt in the form of a Heating Plant Upgrade Tax-Exempt Governmental Lease Purchase Agreement ("Heating Plant Upgrade GLPA") secured by the University's general obligation for the Cogeneration facility portion of the UCONN 2000 Heating Plant Upgrade project on the Storrs Campus.

This \$81,900,000 of UCONN 2000 debt was not issued under the UCONN 2000 General Obligation or Special Obligation Indentures of Trust, but was entered into under certain separately negotiated documents and agreements in two parts. On December 18, 2003, the University entered into a privately placed \$75,000,000 Heating Plant Upgrade GLPA with a reported nominal interest rate of 4.42% compounded monthly to finance the design and construction of a combined heat and power plant. On August 15, 2005, the University amended the agreement for an additional Heating Plant Upgrade GLPA of \$6,900,000 at a 5.09% interest rate compounded monthly (resulting in a combined interest rate of approximately 4.5%).

The Heating Plant Upgrade is a UCONN 2000 Act listed project and the funding, in addition to the \$81.9 million, has also included UCONN 2000 General Obligation Debt Service Commitment Bonds proceeds. The cogeneration facility is a linchpin of the University's commitment to energy efficiency and generates much of the needs for electrical power, heating and cooling on the Storrs campus. Cost avoidance achieved through the construction and operation of the facility is expected to provide funds to pay the debt service.

The Tax-Exempt Governmental Lease Purchase Agreement is not rated by the credit rating agencies however, as UCONN 2000 debt it is considered in their credit rating analysis of the UCONN 2000 General Obligation and Special Obligation programs.

UCONN 2000 Heating Plant Upgrade GLPA – Refundings

Pursuant to the financing documents the University twice renegotiated the interest rate on the original financings of the Heating Plant Upgrade GLPAs and achieved a total of \$7.4 million in gross debt service savings (\$5.0 million net present value) for Connecticut taxpayers through two separate transactions.

During July 2013, the University achieved gross debt service savings of \$5.2 million by negotiating a lower interest rate amendment to the UCONN 2000 Heating Plant Upgrade-Cogeneration Facility Tax-Exempt Governmental Lease Purchase Agreement. The interest rate was lowered, effective in the August 29, 2013 monthly payment, from 4.42% on the original \$75 million loan, and 5.09% on the original \$6.9 million loan, to 3.22% on both. The combined remaining balance of the loans was approximately \$59 million. The amendment achieved combined gross nominal debt service savings of \$5,168,392.06 million or \$3,238,326.69 (4.2%) on a net present value basis over the remaining 12 years and 5 months of the original financing.

During November 2016 the University achieved gross debt service savings of \$2.2 million by negotiating another lower interest rate amendment to the UCONN 2000 Heating Plant Upgrade-Cogeneration Facility Tax-Exempt Governmental Lease Purchase Agreement. The interest rate was lowered a full 100 basis points to 2.22% from 3.22% on the outstanding \$45.1 million balance for a debt service nominal savings of \$2,246,699.46 or present value savings of \$1,758,933.37 (3.9% as a percentage of par) over the remaining term. Monthly debt service payments which UConn pays for out of its own resources were reduced by \$20,802.76 or about \$249,633.06 a year. The new rate was effective from January 2017 to the original term of the loan ending on 12/29/2025 (approximately nine years).

UCONN 2000 Residential Life Facilities – Nathan Hale Inn Promissory Taxable Note

On December 1, 2016, the UCONN 2000 Residential Life Facilities – Nathan Hale Inn Promissory Taxable Note was fully paid off and retired.

Background: On April 29, 2015, the Board of Trustees authorized \$5,500,000 of UCONN 2000 debt in the form of a taxable Promissory Note secured by the University's general obligation for that portion of the UCONN 2000 Residential Life Facilities project used to purchase the Nathan Hale Inn on the Storrs Campus. The Governor approved the financing on May 19, 2015.

On July 1, 2015, the University entered with Webster Bank a privately placed \$5,376,712.73 principal amount at a 6.84% interest rate known as "UCONN 2000 Residential Life Facilities (Nathan Hale Inn) Promissory Note (Taxable)" which was secured by the general obligation of

the University with an approximate 18-month maturity (August 1, 2015 to December 1, 2016). The note's debt service payments are \$44,989.20 monthly with a balloon payment due on December 1, 2016. The UCONN 2000 Residential Life Facilities (Nathan Hale Inn) Promissory Note (Taxable) was issued pursuant to certain separately negotiated (by the University with Webster Bank) documents and agreements. UCONN 2000 bond counsel reviewed the process. The note was not issued pursuant to the UCONN 2000 General Obligation or Special Obligation Indentures of Trust.

UCONN 2000 DEBT SERVICE

Pursuant to Section 10a-109x of the Connecticut General Statutes, the Semiannual Report to the General Assembly is to list the payment of debt service requirements and the payment of principal and interest on the UCONN 2000 securities.

DEBT SERVICE: General Obligation Debt Service Commitment Bonds

The State General Fund pays the debt service and any arbitrage rebate due on the University's GO-DSC Bonds.

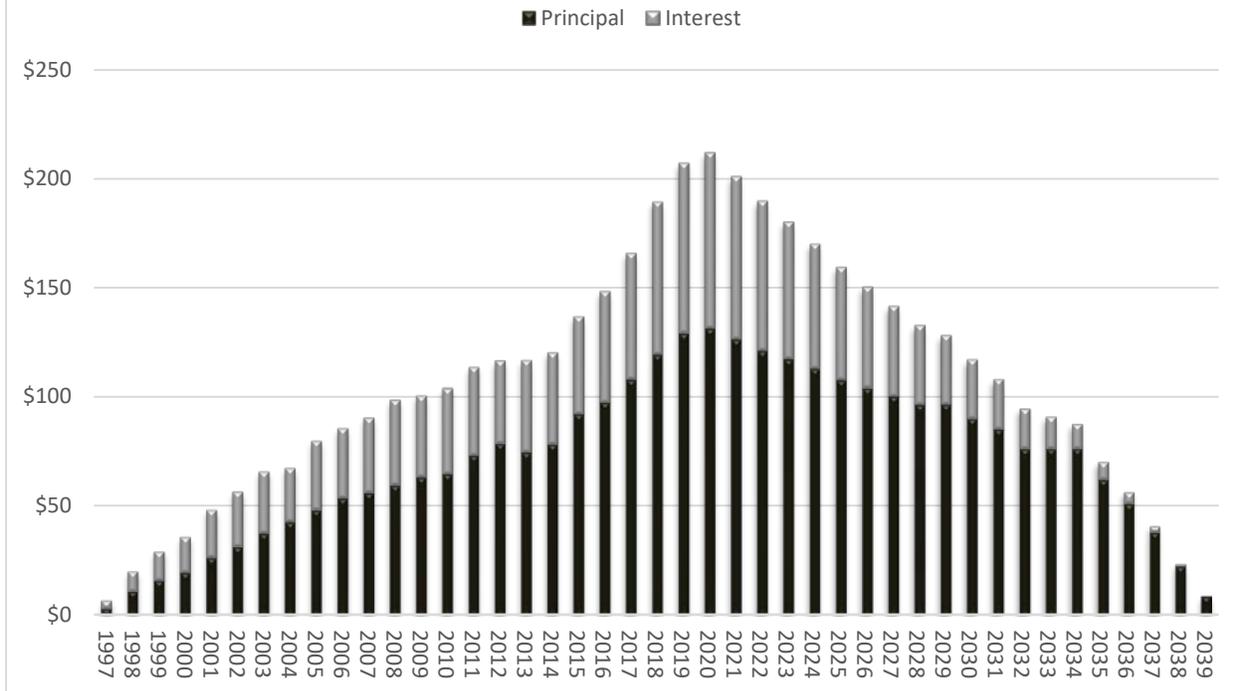
As of December 31, 2019:

- Since the program's inception in 1996, total UCONN 2000 GO-DSC debt service (which is paid by the state) amounted to \$4,570.1 million, representing \$3,085.4 million of principal and \$1,484.7 million of interest (including the Refunding Bonds but net of refunded debt).
- Of this amount, debt service of \$2,270.3 million, representing \$1,409.0 million of principal and \$861.3 million of interest (including capital appreciation bonds) has been paid.
- Future debt service requirements at this time amount to \$2,299.8 million representing \$1,676.4 million of principal and \$623.4 million of interest (including capital appreciation bonds).

For the fiscal year ending June 30, 2019, the GO-DSC Bonds debt service paid was \$207.2 million (representing \$129.0 million of principal and \$78.2 million of interest).

As of December 31, 2019, the following graph shows UCONN 2000 GO-DSC debt service by fiscal year including refunding issues, but net of refunded.

UCONN 2000 GENERAL OBLIGATION BONDS DEBT SERVICE



DEBT SERVICE: Special Obligation Student Fee Revenue Bonds

The University is responsible for paying the debt service and any arbitrage rebate due on its Special Obligation debt. All other things equal, the Special Obligation bonds incur proportionally more interest expense because they are generally issued for terms of up to approximately thirty years compared to twenty years for the GO-DSC Bonds. The longer term of the bonds (up to 30 years) generally reflects the long term debt cost of the assets financed by the bonds being spread more evenly over the annual benefits received by the student populations utilizing the assets.

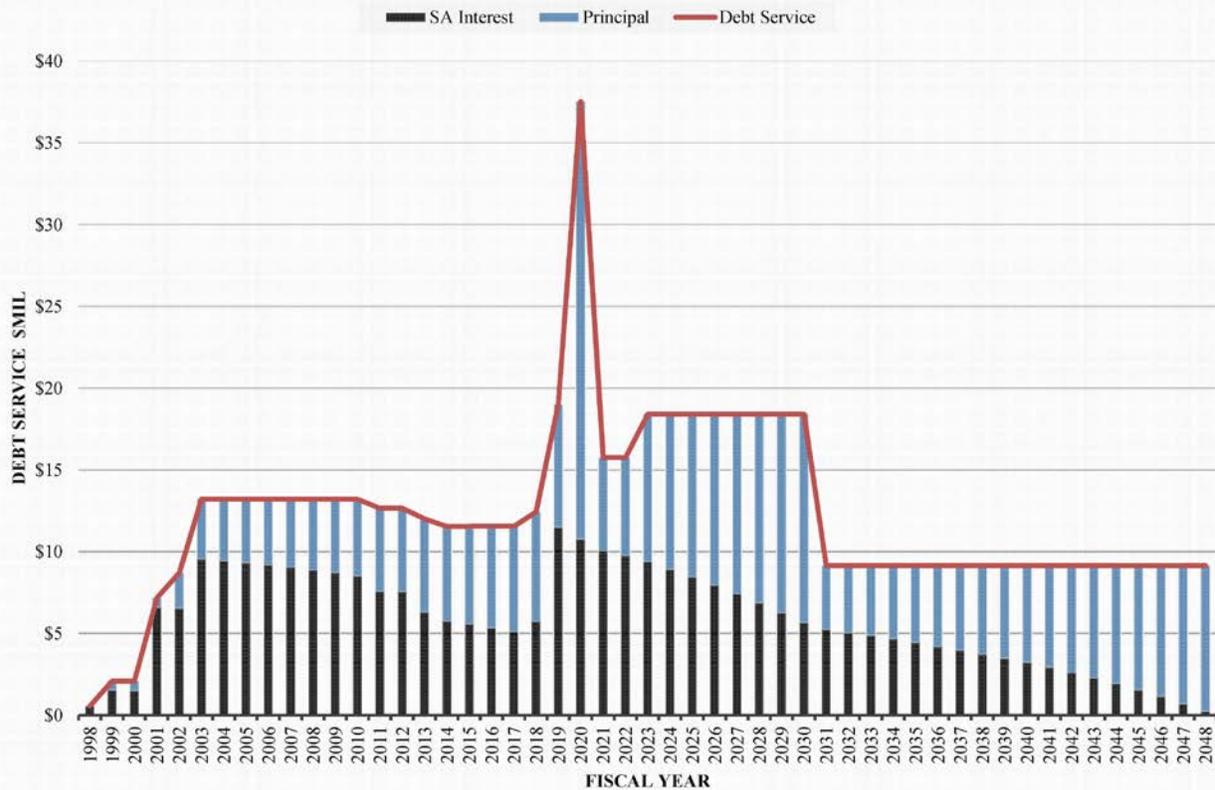
As of December 31, 2019:

- Total UCONN 2000 SO-SFR debt service (which is paid by the University) amounted to \$622.3 million, representing \$325.0 million of principal and \$297.3 million of interest (including the SO-SFR 2018 New Money and the Refunding 2012 Series A Bonds all previous bonds have been retired).
- Of this amount, the University had paid debt service of \$273.8 million representing \$118.4 million of principal and \$155.4 million of interest.
- Debt service remaining totals \$348.5 million comprising \$206.7 million of principal and \$141.9 million of interest (including capital appreciation bonds).

For the fiscal year ending June 30, 2019, the University paid, from its own resources, SO-SFR Bond debt service of \$19.0 million (representing \$7.5 million of principal and \$11.5 million of interest).

As of December 31, 2019, the following graph shows UCONN 2000 SO-SFR Bond debt service by fiscal year including refunding issues, but net of refunded.

UCONN2000 SO-SFR BONDS DEBT SERVICE



DEBT SERVICE: UCONN 2000 Heating Plant Upgrade GLPA

The University is responsible for paying the debt service for the Heating Plant Upgrade Tax-Exempt Governmental Lease Purchase Agreement. Originally, there were two financing tranches providing a total of \$81,900,000 of funding for the UCONN 2000 Heating Plant Upgrade the Storrs Campus cogeneration facility for the project on the Storrs Campus. Tax-Exempt Governmental Lease Purchase Agreement debt service payments commenced on January 29, 2006.

Originally, debt service was to be paid in 240 monthly installments of approximately \$517,135 (which over the life of the financing would have totaled \$124,112,424 comprising \$42,212,424 of interest and \$81,900,000 of principal).

During July 2013, the University negotiated and amended the agreement to the lower rate of 3.22% providing for the (at that time) remaining 149 monthly installments to be lowered to approximately \$482,448, which over the life of the financing, totals to debt service of \$118,944,031 comprising \$37,044,031 of interest and \$81,900,000 of principal.

During November 2016, the University renegotiated and amended the agreement to a lower interest rate of 2.22% providing for the remaining 79 monthly installments to be lowered to approximately \$461,645.13 effective January 29, 2017. Following this amendment over the life

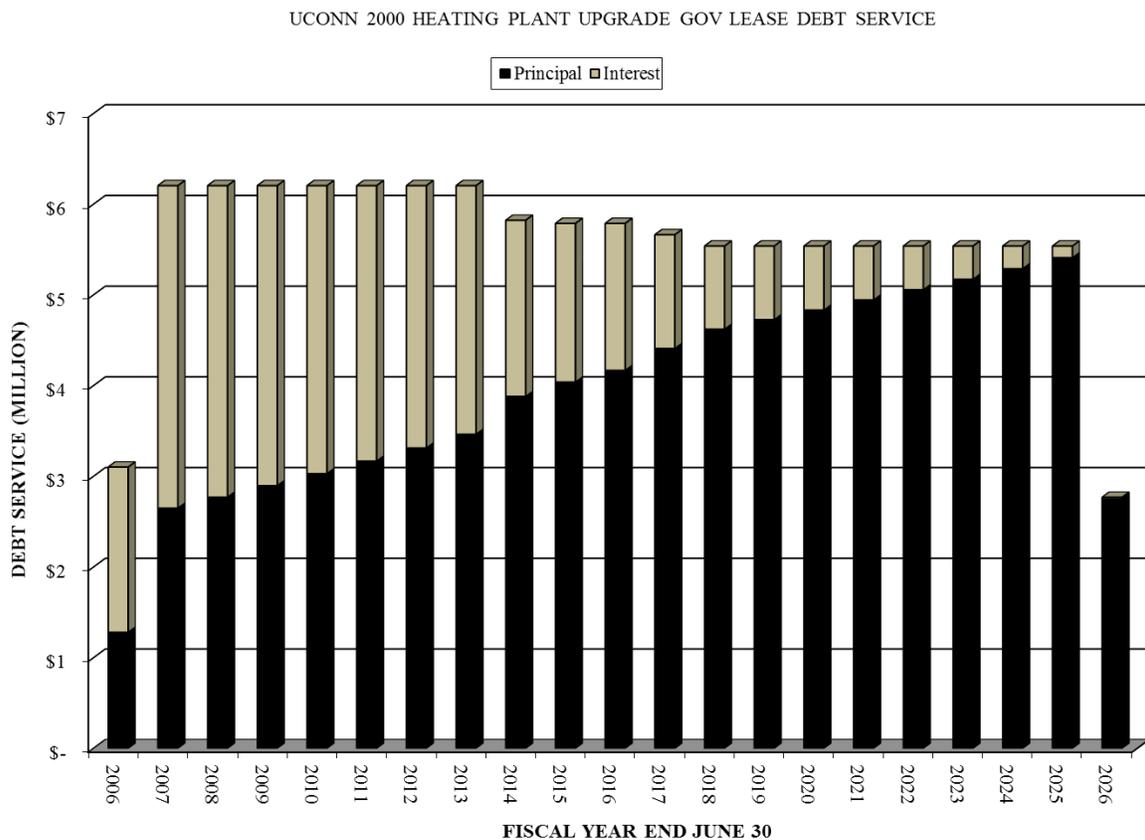
of the financing total debt service now totals \$116,697,331.91 comprising \$34,797,331.91 of interest and \$81,900,000.00 of principal.

As of December 31, 2019:

- Total UCONN 2000 Heating Plant Upgrade Tax-Exempt Governmental Lease Purchase Agreement debt service (which is paid for by the University) amounted to \$116.7 million representing \$81.9 million of principal and \$34.8 million of interest, (post both refinancings to lower rates).
- The University had paid down the Tax-Exempt Governmental Lease Purchase Agreement debt service by \$83.4 million representing \$50.8 million of principal and \$32.6 million of interest.
- Remaining debt service amounts to \$33.2 million representing \$31.0 million of principal and \$2.2 million of interest.

For the fiscal year ending June 30, 2019, the University paid from its own resources Tax-Exempt Governmental Lease Purchase Agreement debt service of \$5.5 million (representing \$4.7 million of principal and \$.8 million of interest).

As of December 31, 2019, the following graph shows the UCONN 2000 Heating Plant Upgrade Tax-Exempt Governmental Lease Purchase Agreement (for the cogeneration plant) debt service by fiscal year.



DEBT SERVICE: UCONN 2000 Residential Life Facilities (Nathan Hale Inn) Promissory Note (Taxable)

The UCONN 2000 Residential Life Facilities (Nathan Hale Inn) Promissory Note (Taxable) was retired on December 1, 2016. Over the eighteen month term, the University paid total debt service of \$5.9 million representing \$5.4 million of principal and \$.5 million of interest.

Investment of Debt Proceeds - Management, Investment and Earnings

The proceeds of the sale by the University of any bonds are part of the Trust Estate established under the General Obligation Master Indenture of Trust with the Trustee Bank as security for bondholders. Consequently, the University holds all of the bond proceeds at the Trustee Bank, with this exception: the Costs of Issuance account funded by the University's GO-DSC Bonds may be held and invested by the State Treasurer's Office in a segregated account from which the Treasurer pays debt service to the Trustee Bank. The Special Obligation Master Indenture Trust Estate provisions includes all of the Trustee Bank Special Obligation bond proceeds received at issuance including the Costs of Issuance account, plus the periodically funded debt service fund, and the Renewal and Replacement Fund which was not funded with tax-exempt bond proceeds. The University directs the Trustee to invest and disburse these accounts.

Prior to June 1998, all UCONN 2000 GO-DSC Bond proceeds were deposited with the Office of the State Treasurer and treated like state bond proceeds, including payments made to vendors through the Office of the State Comptroller. Subsequently, the Office of the Attorney General opined that the University, and not the State, issues UCONN 2000 bonds. Accordingly, upon advice of bond counsel and in conformity with the Master Indenture of Trust, GO-DSC Bond construction fund proceeds were deposited to the Trustee Bank and disbursed as directed by the University pursuant to the Indenture. The UCONN 2000 GO-DSC Bond proceeds for costs of issuance are still treated like State bond proceeds and deposited with the Office of the State Treasurer and disbursed through the Office of the State Comptroller.

The Indentures of Trust provide that the University is authorized and directed to order each disbursement from the Construction Account held by the Trustee upon a certification filed with the Trustee bank and, in the case of the DSC bonds, the State Treasurer. The Indentures provide that such certification shall be signed by an Authorized Officer of the University and include certain disbursement information. Once the Authorized Officer certification filings are made, the University can directly disburse payments.

The investment of tax-exempt debt proceeds is heavily regulated by the Internal Revenue Service, the relevant Indentures of Trust with bondholders, Connecticut law, and other regulatory restrictions. In addition to meeting those requirements, the University's general investment policy is to balance an appropriate risk-return level, heavily weighted towards safety of assets, with estimated cash flow needs and liquidity requirements. The University is also mindful that the rating agencies, bond buyers, and bond insurers often weigh the quality of an issuer's investment portfolio.

Bond proceeds form part of the Trust Estate established with the Trustee Bank as security for bondholders. To date, the University has directed the Trustee Bank to invest any DSC construction fund proceeds in the State Treasurer's Short Term Investment Fund ("STIF") which is "AAAm" rated by Standard and Poor's and offers daily liquidity and historically attractive

risk-adjusted yields. The State Treasurer's Office wishes to hold and invest the University's GO-DSC funded Costs of Issuance account, a much smaller account.

The GO-DSC Refunding, 2004, 2006, 2007, 2010, 2011, 2013, 2014, 2015, 2016, 2017 and 2019 Series A Bond proceeds, other than the costs of issuance, were deposited with by the Trustee Bank to immediately redeem bonds or invest in irrevocable escrow funds, which are invested in U.S. Treasury Securities and/or U.S. Treasury State and Local Government Securities ("SLGS") and cash pursuant to the indenture and respective Escrow Agreements.

It has been the University's practice to invest all of the Special Obligation new money bond proceeds, including the debt service funds, in dedicated STIF accounts, with the exception of the 1998 Special Obligation Special Capital Reserve Fund which at times had also been invested in longer term "AAA" rated federal agencies' fixed income Investment Obligations as defined in the Special Obligation Indenture of Trust.

The SO-SFR Refunding 2002, 2010 and 2012 Series A Bond proceeds, other than the costs of issuance and debt service accounts that were invested in STIF, were deposited with the Trustee Bank in their respective irrevocable Escrow Accounts, which were invested in U.S. Treasury State and Local Government Securities ("SLGS"), and cash pursuant to the Escrow Agreement.

The University's GO-DSC Bond proceeds investment earnings are retained and accounted for by the State Treasurer's Office and do not flow to the University or to the Trustee Bank. The University's Special Obligation bond investment earnings are part of the pledged revenues and are directly retained by the Trustee Bank to pay debt service on the bonds, and may also be used to flow to other Trustee bond accounts, if necessary, pursuant to the Indenture of Trust. Fiscal year end June 30, 2019, UCONN 2000 SO-SFR Bond funds (not including the refunding escrows and the Renewal & Replacement Fund) investment earnings amounted to \$2,262,121.26 (cash basis). The Renewal & Replacement Fund on deposit at the Trustee Bank (US Bank, NA) which are non-bond proceeds had \$230,338.92 of investment earnings (a balance that is retained in that account).

Investment earnings on the SO-SFR Bonds Refunding Escrow Accounts flow to their respective irrevocable escrows and are used by the Trustee Bank to meet debt service payments and redeem the defeased bonds. Similarly, investment earnings on the GO-DSC Refunding Escrow Accounts flow to each respective irrevocable escrows and are used by the Trustee Bank to meet debt service payments and redeem the defeased bonds.

On December 29, 2005, the University received \$15,847,241.65 representing the last advance of the \$81,900,000 of funds to the University under the Tax-Exempt Governmental Lease Purchase Agreement for the Heating Plant Upgrade Cogeneration facility. These funds, and the related investment income, are for uses related to the Cogeneration financing and were deposited in a dedicated STIF account. During December 2006, part of the remaining proceeds, representing the initial December 18, 2003 financing, was yield restricted by investing it in a dedicated Tax Exempt Proceeds Fund. All of the Tax-Exempt Governmental Lease Purchase Agreement proceeds have been spent.

Future UCONN 2000 Debt Issuance

The University has issued the entire \$962 million of UCONN 2000 Phase I & II authorizations for the General Obligation bonds secured by the State's DSC UCONN 2000 Phase III, as amended, provides for an additional \$3,320,900,000 of funding with University General Obligation bonds secured by the State's Debt Service Commitment ("GO-DSC"). Of this amount, as of December 31, 2019, \$2,581,600,000 of Phase III has been authorized by the Board of Trustees and submitted to the Office of the Governor and deemed approved by the latter, of which \$199,600,000 is unissued.

During 2020, the University tentatively plans to issue new money UCONN 2000 GO-DSC Bonds, and if conditions warrant a possible GO-DSC refunding bond issue.

During Fiscal Year 2018 the Board of Trustees and the Office of the Governor approved the Special Obligation Student Fee Revenue Bonds Fifth Supplemental Indenture which authorized \$185,000,000 for the UCONN 2000 Project "Intramural, Recreational and Intercollegiate Facilities" ("IRIF"). Of this authorization \$152,000,000 was used in the SO-SFR 2018 new money bond issue (most of which funded the new Student Recreation Facility on the Storrs Campus and the remainder to stadia and infrastructure IRIF uses), and \$33,000,000 remains unissued as of June 30, 2019. Accordingly, the University could issue bonds with this remaining authorization in the future providing that there is financial self-sufficiency capacity and aggregate pledged revenues sufficient to meet requirements of the Special Obligation Indenture.

For calendar year 2020 the University plans to build and/or improve certain recreational related projects including a possible Ice Rink expansion on the Storrs Campus, pursuant to the Act. Currently, the University is considering several possible funding methods.

Additionally, the University could enter into other types of tax-exempt or taxable financings pursuant to the UCONN 2000 Act. Market conditions and other factors could also lead to the issuance of refunding debt for General Obligation, Special Obligation, or other debt in the future.

Credit Ratings

The capital markets have recognized the tangible benefits to the state's economy of meeting the infrastructure and educational goals of the program, as well as the University's success in implementing them. A good credit rating not only provides the state and the University with less expensive access to the capital markets but also supports the state's quality reputation among investors. A University milestone occurred in 2002 with the achievement of the high-grade "double A" credit-rating category from Moody's Investors Service for its Special Obligation bonds.

On May 12, 2017, Fitch announced that its credit rating for the outstanding University of Connecticut General Obligation Debt Service Commitment Bonds was revised to a rating of "A" from "A+" following a downgrade of State General Obligation bonds.

On May 15, 2017, Moody's Investors Service announced that its credit rating for the outstanding University of Connecticut General Obligation Debt Service Commitment Bonds was revised to a rating of "A1" from "Aa3" following a downgrade of State General Obligation bonds.

On July 24, 2017, Moody's Investors Service downgraded University of Connecticut's (UConn) Special Obligation Student Fee Revenue Bonds to "Aa3" from "Aa2" with a negative outlook.

As of December 31, 2018, the UCONN 2000 Special Obligation Student Fee Revenue Bonds were rated "AA-" by Standard & Poor's and "Aa3" by Moody's Investors Service. Fitch Investors Service does not have an underlying rating for the University's Special Obligation bonds.

As of December 31, 2018, the UCONN 2000 General Obligation Debt Service Commitment Bonds were rated "AA-" by S&P Global, "A1" by Moody's Investors Service, and "A" by Fitch Investors Service.

On April 5, 2019, S&P Global announced that its credit rating for the outstanding University of Connecticut General Obligation Debt Service Commitment Bonds was revised to a rating of "A+" from "AA-" following a downgrade of State General Obligation bonds.

On April 5, 2019, S&P Global downgraded University of Connecticut's (UConn) Special Obligation Student Fee Revenue Bonds to "A+" from "AA-".

As of December 31, 2019, the UCONN 2000 Special Obligation Student Fee Revenue Bonds were rated "A+" by S&P Global and "Aa3" by Moody's Investors Service. Fitch Investors Service does not have an underlying rating for the University's Special Obligation bonds.

As of December 31, 2019, the UCONN 2000 General Obligation Debt Service Commitment Bonds were rated "A+" by S&P Global, "A1" by Moody's Investors Service, and "A" by Fitch Investors Service.

In addition to the underlying credit ratings, in the past municipal bond insurance from FGIC, MBIA and FSA have secured certain maturities of several of the above bond issues. Originally, the insurance provided "AAA" credit ratings. In the past decade the bond insurers experienced a series of changes including credit rating downgrades and other changes. At times, this has resulted in the UCONN 2000 bonds underlying credit ratings exceeding the credit ratings for certain bond insurers. As a result, people are advised to check with the credit rating agencies for the most recent bond insurer ratings.

UCONN 2000 Debt Reflected On Audited Financial Statements

UCONN 2000 financings are debt obligations of the University, as the issuer, and are reflected on UConn's financial statements accordingly. For example, the Special Obligation bonds, the Tax-Exempt Governmental Lease Purchase Agreement, and the UCONN 2000 Residential Life Facilities (Nathan Hale Inn) Promissory Note (Taxable) (prior to being paid off and retired by December 1, 2016) debt are shown as liabilities on the University's financial statements and the related capital improvements are shown as assets. The University is the issuer and ultimately responsible for the UCONN 2000 General Obligation Bonds which also fund certain assets at UConn Health, and consequently are also partially reflected on UConn Health's financial statements as further discussed below.

Phase III of the Act authorizes the University to fund projects for UConn Health with, among other sources, UCONN 2000 GO-DSC Bonds and the University has done so. Accordingly, the

UCONN 2000 GO-DSC Phase III project proceeds and any unspent debt proceeds are reflected on both UConn's and UConn Health's financial statements. As bonds are issued, the amount of the commitment for UConn Health is recorded as an offset to revenue on UConn's financial statements in the University's Other Changes in Net Position section of the Statements of Revenues, Expenses, and Changes in Net Position. A corresponding liability is recorded in due to affiliate in UConn's Statement of Net Position for the unspent portion of the bonds due to UConn Health. Correspondingly, UConn Health records that portion of UCONN 2000 bond issuance proceeds for UConn Health in the capital appropriation line in UConn Health's Statements of Revenues, Expenses, and Changes in Net Position. A corresponding receivable is recorded for the unspent portion of the bonds. The State's DSC for interest on the UCONN 2000 General Obligation bonds is included in Non-Operating Revenues (Expenses) section of the Statements of Revenues, Expenses, and Changes in Net Position.

UCONN 2000: Private Financial Support

For the first three months of fiscal year 2020 the Foundation raised \$17.2 million in new gifts and commitments, \$5.4 million designated to endowed accounts and \$11.8 million to restricted.

- Patient-Centered Outcomes Research Institute \$6.2 million gift to support the School of Medicine.
- Anonymous donor \$3 million gift to support the School of Liberal Arts and Sciences
- Virginia L. Stevens pledged \$1 million to support School of Engineering scholarships

UCONN 2000 IN CYBERSPACE

Information about UCONN 2000 is available on the World Wide Web at:

<https://evpacfo.uconn.edu/uconn2000reports/>

The website contains all previous legislative updates to the Governor and the General Assembly (Progress Reports), the four-year Progress Report, the original UCONN 2000 proposal and UCONN 2000 project updates.

University of Connecticut FY20 Capital Budget Spending Plan Proposed Projects by Statutory Named Lines & by Program*

UCONN 2000 Bond Funded Projects by Statutory Named Lines	Total	By Program			
		Science Program	Academic Priorities	Deferred Maintenance	Other
Gant Building STEM Renovations	40,000,000	40,000,000			
STEM Research Center Science 1	35,400,000	35,400,000			
Other/Contingency	4,600,000				4,600,000
Academic and Research Facilities	\$ 80,000,000				
Infrastructure					
Boiler Plant Equipment Replacement & Utility Tunnel	14,744,000	14,744,000			
Central Utility Plant Equipment & Pumping Improvements	6,000,000	6,000,000			
Central Utility Plant Emergency Power	3,635,000	3,635,000			
Northwest Science Quad Phase 2 Tunnel	20,825,000	20,825,000			
Northwest Science Quad Supplemental Utility Plant	25,200,000	25,200,000			
ESCO (Reimbursement)	8,961,379		8,961,379		
Southwest Campus (Athletic Stadia)	8,085,000		8,085,000		
Code Corrections	1,700,000		1,700,000		
Pedestrian Safety Improvements-South Commons & Gateways	1,100,000		1,100,000		
Classroom & Lab Renovations	3,000,000	1,400,000	1,600,000		
Other/Contingency	6,019,121		342,673	842,673	4,833,776
Deferred Maintenance/Code Compliance/ADA Compliance/Infrastructure Improvements & Renovation Lump Sum Equipment, Library Collections & Telecommunications	99,269,500				
Fine Arts Renovations & Improvements	8,500,000	4,000,000	4,500,000		
Residential Life Facilities	5,930,500		5,930,500		
Total UCONN 2000 Bond Funded Projects	\$ 197,200,000	\$ 151,204,000	\$ 12,373,173	\$ 24,189,051	\$ 9,433,776
University Funded Projects					
Facilities Repairs & Improvements (including Residential Life)	8,000,000		8,000,000		
Programmatic Renovations	12,000,000		12,000,000		
Athletic Stadia	3,800,000			3,800,000	
Hockey Arena	23,500,000			23,500,000	
Other/Contingency	5,500,000			5,500,000	
Total University Funded Projects	\$ 52,800,000		\$ 12,000,000	\$ 8,000,000	\$ 32,800,000
Grand Total FY20 Capital Budget	\$ 250,000,000	\$ 151,204,000	\$ 24,373,173	\$ 32,189,051	\$ 42,233,776

*Projects less than \$500,000 are approved by UConn administrative committee. Projects costing \$500,000 or more are submitted for Board action on a project by project basis.

UCONN 2000 Bonds
State General Obligation Bond Phasing Plan & Actuals by Statutory Named Line
As of November 30, 2019

Project	Authorization*				Actuals as of 11.30.19		
	FY96-FY19	FY20	FY21-FY27	Total Phases I, II, III	Expenditures	Encumbrances	Available**
Academic and Research Facilities	\$122,407,429	\$80,000,000	\$328,000,000	\$530,407,429	\$90,934,144	\$41,207,311	\$70,265,974
Agricultural Biotechnology Facility & Completion	12,400,000			12,400,000	12,400,000		
Alumni Quadrant Renovations	11,183,624			11,183,624	11,183,624		
Arjona and Monteith (new classroom buildings)	128,219,871			128,219,871	128,219,871		
Avery Point Campus Undergraduate & Library Building	10,461,246			10,461,246	10,461,246		
Avery Point Marine Science Research Center - Phase I & II	37,254,246			37,254,246	37,254,246		
Avery Point Renovation	13,203,165			13,203,165	13,203,165		
Beach Hall Renovations	5,146,688			5,146,688	5,146,688		
Benton State Art Museum Addition	3,603,509			3,603,509	3,603,509		
Biobehavioral Complex Replacement	3,495,807			3,495,807	3,495,807		
Bishop Renovation	2,480,141			2,480,141	2,480,141		
Business School Renovation - Phase II	7,958,470			7,958,470	7,958,470		
Central Warehouse New	6,933,752			6,933,752	6,933,752		
Chemistry Building	53,062,000			53,062,000	53,062,000		
Deferred Maintenance-Storrs & Regionals	667,063,773	99,269,500	324,782,955	1,091,116,228	587,823,419	24,497,455	154,012,399
East Campus North Renovations	7,382,605			7,382,605	7,382,605		
Engineering Building	93,412,822			93,412,822	92,122,047	503,879	786,896
Equipment, Library Collections & Telecommunications	313,903,656	8,500,000	69,284,190	391,687,846	304,740,474	1,736,602	15,926,580
Family Studies (DRM) Renovation	2,868,306			2,868,306	2,868,306		
Farm Buildings Repairs/Replacement	6,408,304			6,408,304	6,405,834		2,470
Fine Arts Phase II	34,778,424	5,930,500		40,708,924	27,964,133	9,712,090	3,032,701
Floriculture Greenhouse	6,691,799			6,691,799	6,691,799		
Gant Plaza Deck	7,287,174			7,287,174	7,287,174		
Gant Building Renovations	12,455,770			12,455,770	12,455,770		
Gentry Renovation & Completion	19,292,806			19,292,806	19,292,806		
Grad Dorm Renovations	2,928,228			2,928,228	2,928,228		
Hartford Relocation Acquisition/Renovation	140,000,000			140,000,000	139,027,625		972,375
Heating Plant Upgrade	21,846,724			21,846,724	21,846,724		
Hilltop Dormitory Renovations	8,176,529			8,176,529	8,176,529		
Ice Rink Enclosure	3,280,000			3,280,000	3,280,000		
International House Conversion (Natural History Museum)	886,134			886,134	886,134		
Intramural, Recreational & Intercollegiate Facilities	31,009,921			31,009,921	31,009,921		
Jorgensen Renovation	3,934,475			3,934,475	3,886,853	11,918	35,704
Koons Hall Renovation/Addition	1,461,146			1,461,146	1,461,146		
Lakeside Renovation	3,800,000			3,800,000	3,800,000		
Law School Renovations/Improvements	16,660,677			16,660,677	16,660,677		
Litchfield Agricultural Center - Phase I	1,000,000			1,000,000	1,000,000		
Manchester Hall Renovation	772,577			772,577	772,577		
Mansfield Apartments Renovation	2,071,000			2,071,000	2,071,000		
Mansfield Training School Improvements	3,000,000	3,500,000	2,666,500	9,166,500	5,681,285		818,715
Monteith Renovation	444,348			444,348	444,348		
Music Drama Addition	7,400,000			7,400,000	7,400,000		
Natural History Museum Completion	500,000			500,000	500,000		
North Campus Renovation	10,996,050			10,996,050	10,996,050		
North Hillside Road Completion	8,200,000			8,200,000	6,484,266	171,835	1,543,899
North Superblock Site & Utilities	7,668,000			7,668,000	7,668,000		
Northwest Quadrant Renovation - Phase I & II	32,001,000			32,001,000	32,001,000		
Old Central Warehouse Renovation	126,000			126,000	126,000		
Parking Garage North	9,658,000			9,658,000	9,658,000		
Parking Garage #3	75,214			75,214	75,214		
Pedestrian Walkways (Fairfield Road Pedestrian Mall)	6,074,000			6,074,000	6,074,000		
Psychology Building Renovation/Addition	24,337,399			24,337,399	24,337,399		
Residential Life Facilities	140,972,476		14,566,355	155,538,831	133,671,432	896,615	6,404,429
School of Business	25,652,366			25,652,366	25,652,366		
School of Pharmacy/Biology	94,609,000			94,609,000	94,387,766	25,713	195,521
Shipppee/Buckley Renovations	6,920,000			6,920,000	6,920,000		
South Campus Complex	12,251,000			12,251,000	12,251,000		
Stamford Downtown Relocation - Phase I	55,781,472			55,781,472	55,781,472		
Stamford Campus Improvements/Housing	1,500,870			1,500,870	1,500,870		
Storrs Hall Addition	14,664,091			14,664,091	14,664,091		
Student Union Addition	57,622,633			57,622,633	57,622,633		
Support Facility (Architectural & Engineering Services)	16,583			16,583	16,583		
Technology Quadrant - Phase IA	39,993,000			39,993,000	39,993,000		
Technology Quadrant-Phase II	34,120,000			34,120,000	34,120,000		

UCONN 2000 Bonds
State General Obligation Bond Phasing Plan & Actuals by Statutory Named Line
As of November 30, 2019

Project	Authorization*				Actuals as of 11.30.19		
	FY96-FY19	FY20	FY21-FY27	Total Phases I, II, III	Expenditures	Encumbrances	Available**
Torrey Life Science Renovation & Completion	1,781,482			1,781,482	1,781,482		
Torrington Campus Improvements	369,156			369,156	369,156		
Towers Renovation	17,950,243			17,950,243	17,950,243		
Underground Steam & Water Upgrade - Phase I & II	12,000,000			12,000,000	12,000,000		
Waring Building Conversion	11,452,000			11,452,000	11,452,000		
Waterbury Property Purchase	200,000			200,000	200,000		
Waterbury Downtown Campus	1,608,764			1,608,764	1,608,764		
West Campus Renovations	519,507			519,507	519,507		
West Hartford Campus Renovations/Improvements	6,774,305			6,774,305	6,774,305		
White Building Renovation	2,427,269			2,427,269	2,427,269		
Wilbur Cross Building Renovation	19,999,571			19,999,571	19,999,571		
Young Building Renovation/Addition	23,651,403			23,651,403	23,651,403		
SUBTOTAL FOR STORRS & REGIONAL CAMPUS	\$2,520,500,000	\$197,200,000	\$739,300,000	\$3,457,000,000	\$2,384,938,919	\$78,763,418	\$253,997,663
CLAC Renovation Biosafety Level 3 Lab	15,901,466			15,901,466	15,901,466		
Deferred Maintenance-UCH	50,951,264			50,951,264	48,925,754		2,025,510
Dental School Renovation	3,525,000			3,525,000	3,525,000		
Equipment, Library Collections & Telecom-UCH	116,429,390			116,429,390	111,302,340		5,127,050
Library/Student Computer Center Renovation	1,266,460			1,266,460	1,266,460		
Main Building Renovation	117,484,316			117,484,316	116,618,976	769,459	95,881
Medical School Academic Building Renovation	39,792,488			39,792,488	39,543,893	34,338	214,257
Planning & Design Costs	25,000,000			25,000,000	25,000,000		
Research Tower	67,992,229			67,992,229	67,992,229		
Support Building Addition/Renovation	100,000			100,000	100,000		
UCH New Construction and Renovation	387,457,387			387,457,387	383,752,583	3,502,886	201,918
SUBTOTAL FOR HEALTH CENTER	\$825,900,000	\$0	\$0	\$825,900,000	\$813,928,701	4,306,683	7,664,616
GRAND TOTAL	\$3,346,400,000	\$197,200,000	\$739,300,000	\$4,282,900,000	\$3,198,867,620	\$83,070,101	\$261,662,279

* UCONN 2000 Bond Authorization is separate from and does not agree to UCONN 2000 Bonds sold, which totals \$3,344,000,000 as of the reported date. This results in a difference of \$199,600,000 between total UCONN 2000 Bonds authorized and total UCONN 2000 Bonds sold.

** The available balance is calculated as FY96-FY20 UCONN 2000 Bond Authorization, less expenditures and encumbrances. As stated above, the bond authorization is separate from bonds sold. The total available balance from bonds sold would be \$199,600,000 less, or \$62,062,279.

EXHIBIT C

POLICIES: SELECTION AND ACQUISITION OF PROFESSIONAL SERVICES

Section 10a-109d (5) of the Connecticut General Statutes authorizes the University to contract with professionals to plan, design and supervise UCONN 2000 projects and other capital projects.

1. The Executive Vice President for Administration and Chief Financial Officer has the responsibility for the administration of these policies. Authority for their implementation may be delegated to appropriate operating departments and/or individuals.
2. A selection committee shall be appointed to select professional services for each project in accordance with university policies and procedures.
3. The selection committee shall develop the rating and evaluation criteria.
4. The contract shall be negotiated in consultation with the University Master Planner and Chief Architect or with the Associate Vice President for Campus Planning Design and Construction for the Health Center.
5. Changes in scope that affect the cost of the project must be approved by the Executive Vice President for Administration and Chief Financial Officer, or as delegated to appropriate operating departments and/or individuals.

EXHIBIT D

POLICIES: PRE-QUALIFICATION AND SELECTION OF CONTRACTORS

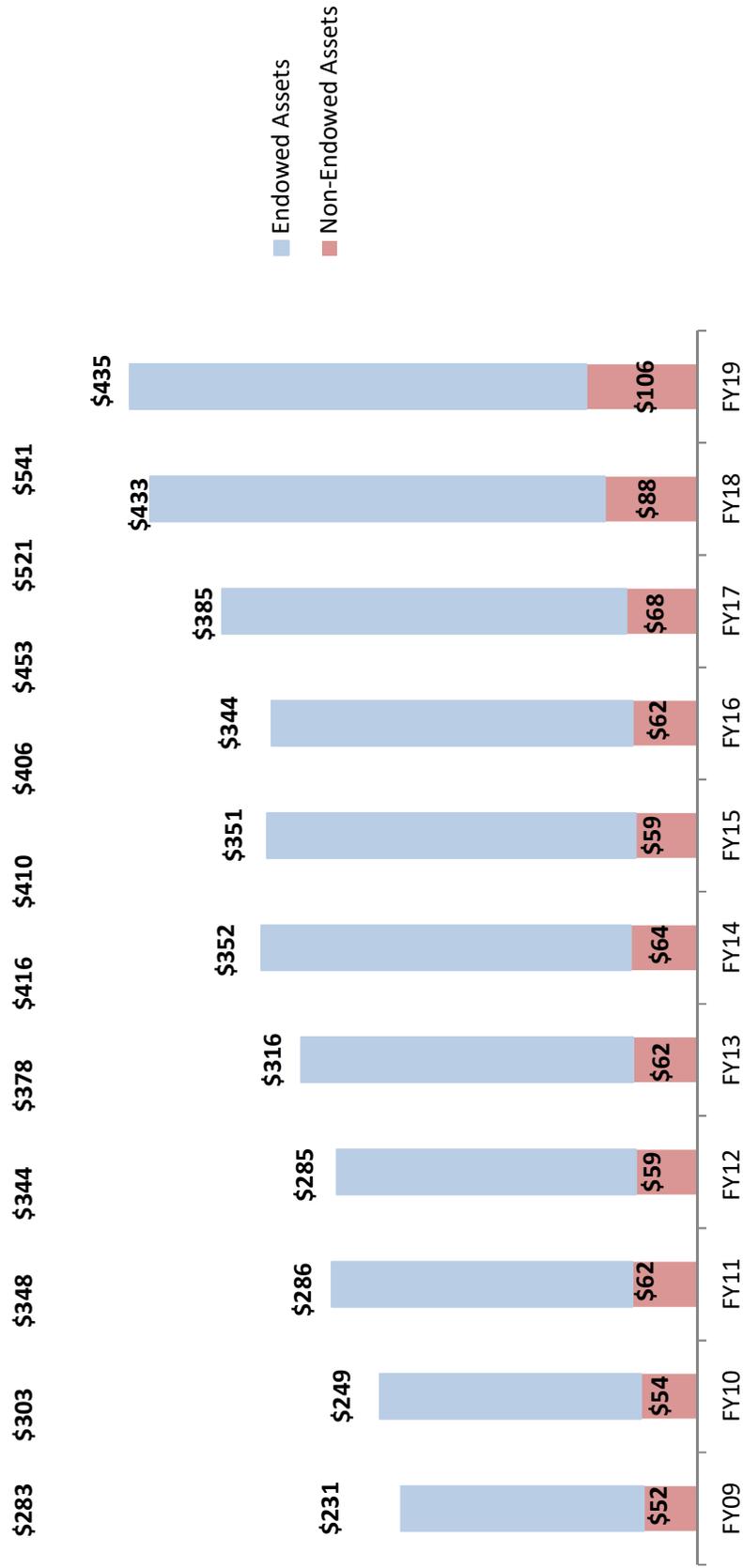
Section 10a-109n (c) (2) of the Connecticut General Statutes authorizes the University to contract with construction firms for the building of UCONN 2000 projects and other capital projects.

1. The Executive Vice President for Administration and Chief Financial Officer has the responsibility for the administration of these policies. Implementing authority may be delegated to appropriate operating departments.
2. Pre-qualification shall be required of all bidders for projects over \$100,000.
3. Objective written criteria for pre-qualification of firms shall be developed.
4. A list of pre-qualified contractors shall be developed on a project basis. Firms will be evaluated on written criteria, including but not limited to: (1) the firm's previous experience with similar projects, (2) the firm's financial ability to complete the project, (3) the firm's ability to post surety bonds, (4) evaluation of the firm's integrity, (5) a determination that the firm has no conflict of interest in connection with the project, (6) technical ability, (7) managerial ability and (8) whether a contractor or one of their subcontractors on one of their previous projects has been in compliance with the provisions of Part III of Chapter 557 and Chapter 558 during the previous five calendar years.
5. Pre-qualified firms shall be invited to bid upon a specific contract. Contracts shall be awarded to the lowest responsible bidder who conforms to the University's standards for the project.
6. If it is in the best interest of the University and the State of Connecticut, all bids may be rejected and the contracting process reopened.
7. The University may negotiate with any pre-qualified contractor that is currently under contract for incorporation work under exigent circumstance. This new work need not be related to the original contract. The new work shall be of a similar nature as the basic contract.
8. Exigent circumstances include work necessary to:
 - a. Prevent loss of grant income or other revenue
 - b. Produce additional revenue or grant income
 - c. Insure renovations are complete for new faculty and staff members
 - d. Provide for safety and health of the University Community
 - e. Comply with any Federal or State laws or regulations

- f. Insure timely and orderly completion of UCONN 2000 or 21st Century UConn Projects.
9. The Executive Vice President for Administration and Chief Financial Officer shall approve use of the exigency provision for an individual job based upon a written recommendation from the University Master Planner and Chief Architect or by the Associate Vice President for Campus Planning Design & Construction as designee for the Health Center
10. The negotiations may be conducted with any contractor or contractors currently performing one of the following types of contracts; lump sum, design build or construction manager at risk.
11. The University Master Planner and Chief Architect or by the Associate Vice President for Campus Planning Design & Construction as designee for the Health Center will prepare a price negotiations memorandum detailing the basis for the award.
12. The Executive Vice President for Administration and Chief Financial Officer shall also stipulate whether the added work shall be incorporated into the contract by change order or be consummated as a new contract.

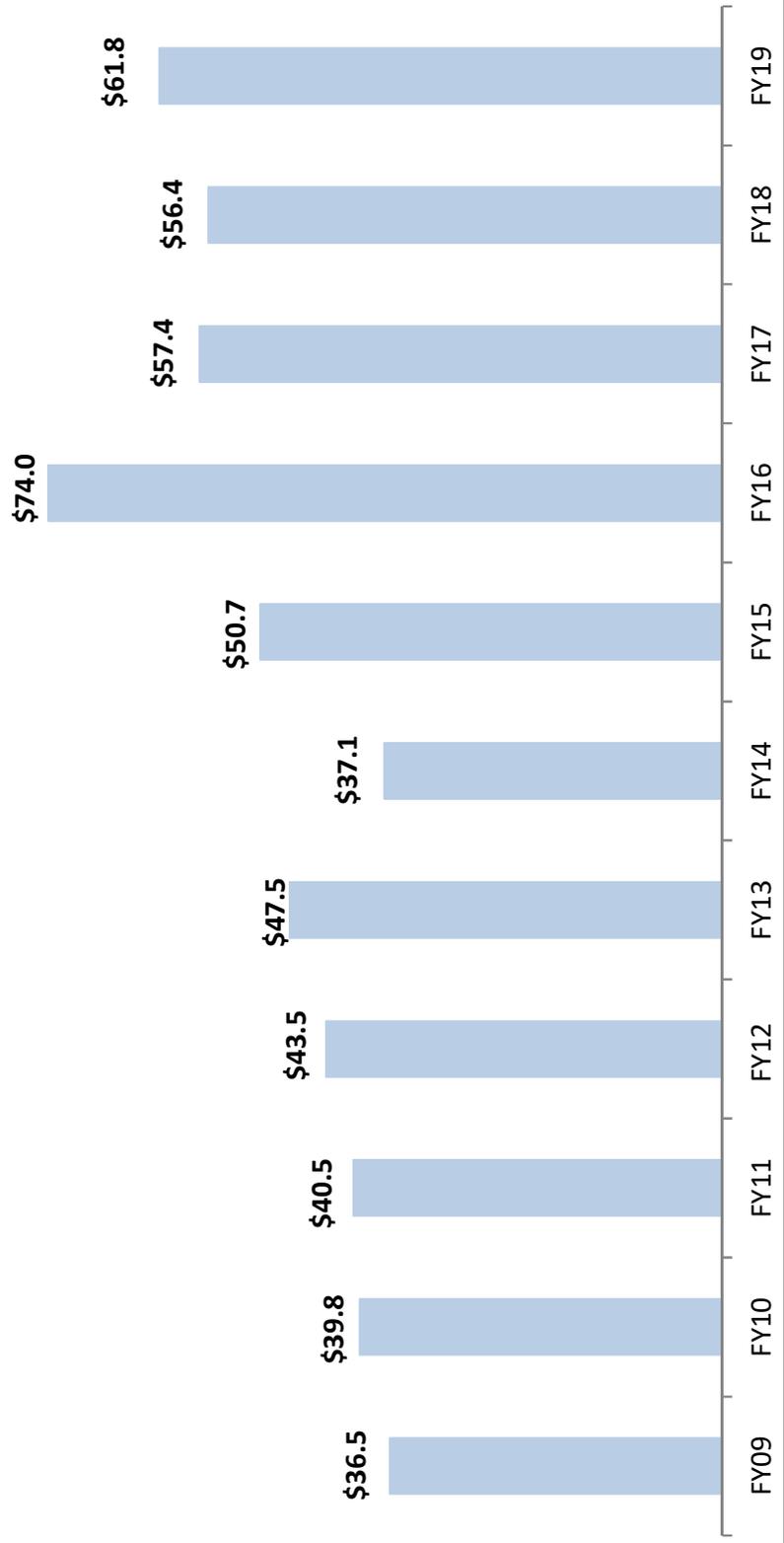
Investment Growth

In Millions of Dollars



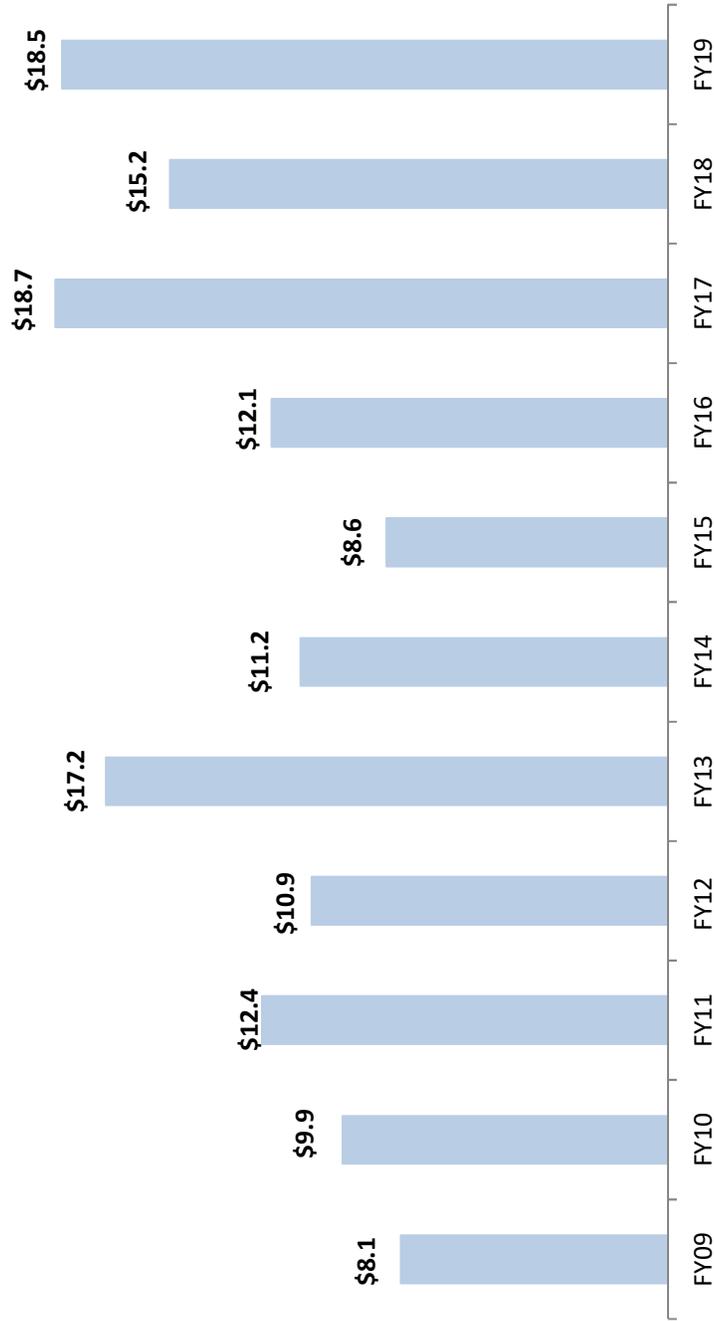
Total Gift Receipts for the University of Connecticut

In Millions of Dollars



Total Endowment Gift Receipts for the University of Connecticut

In Millions of Dollars



PREVAILING WAGE COMPLIANCE REPORT

The attachments referred to below cover the reporting period from July 1, 2019 thru December 31, 2019 and are issued pursuant to the requirements of subsection (f) of section (7) of Public Act 02-3, an Act Concerning 21st Century UCONN, by providing the following information:

(1) The names and addresses of contractors and subcontractors performing repair, addition, alteration and new construction on the university's campuses in the previous six months.

Attachment A provides the listing in alphabetical order. This is being filed in conjunction with the January 2020 Report Number Forty-nine to provide a consolidated report for UCONN 2000 activities. There is no sub-grouping of contractors or subcontractors as the nature of their business makes each interchangeable with the other as business opportunities become available.

Attachment B is based on information from the State of Connecticut Department of Labor, Wage and Workplace Standards Division, Contract Compliance Unit and represents a combined sharing of information by the University of Connecticut and the Department of Labor. No report is made from the Department of Labor, for this reporting period.

Attachment C is the Debarment list issued by the Department of Labor.

ATTACHMENT A
 ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
 APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
AAIS Corp	802 Boston Post Road	PO Box 26066	West Haven	CT	06516
Accurate Door & Window LLC	156 Middle Road		Preston	CT	06365
Adtech Systems LLC	1627 Tolland Turnpike		Manchester	CT	06042
Advanced Scaffold Services of New England LLC	620 Oakwood Avenue		West Hartford	CT	06110
Advanced Sheetmetal Associates LLC	52 Industrial Park Access Road		Middlefield	CT	06455
AI Engineers, Inc	919 Middle Street		Middletown	CT	06457
Air Balancing Service Company	7 Corporate Drive, U-109-110		North Haven	CT	06473
Air Equipment LLC	43 Thomas Street		East Hartford	CT	06108
Air Temp Mechanical Services Inc	360 Captain Lewis Drive		Southington	CT	06489
Alberca Construction Company, LLC	79 High Ledge Circle		Manchester	CT	06040
All State Construction Inc	449 Cooke Street	PO Box 805	Farmington	CT	06034
All-Phase Enterprises Inc	72 West Stafford Road, Unit C-3		Stafford Springs	CT	06076
Array Systems, LLC	205 Research Drive, Unit 4		Milford	CT	06460
AstroTurf LLC	2680 Abument Road		Dalton	GA	30721
ATC Group Services Inc	221 Rue Dejean, Suite 200		Lafayette	LA	70508
Atlantic Masonry Products Corp.	67 Quinipiac Avenue		North Haven	CT	06473
Automated Logic Contracting Services (DBA Automated Logic Connecticut)	29 North Plains Highway, Suite 17		Wallingford	CT	06492
A-Z Corporation	46 Norwich-Westerly Road		North Stonington	CT	06359
B&G Restaurant Supply Inc	48 Eagle Street		Pittsfield	MA	01201
B&W Paving and Landscaping LLC	215 Flanders Road	PO Box 70	Mystic	CT	06355
Bailey Electrical Services Inc	126 Lohse Road		Willington	CT	06279
Barall & Konover Floors Inc	714 Blue Hills Avenue		Hartford	CT	06112
Barber Firestop Systems LLC	175 Englewood Drive		Orange	CT	06477
Bartholomew Company Inc	3324 Main Street		Hartford	CT	06120
Beacon Light & Supply Co	180 Walnut Street		Hartford	CT	06120
Berkshire Construction & Saw Cutting LLC	10 Harmony Hill Road		New Hartford	CT	06057
Bestech, Inc of Connecticut	25 Pinney Street		Ellington	CT	06029
Birthmark Fire Protection LLC	399 Ledyard Street, Unit 6		Hartford	CT	06114
BL Companies Inc	355 Research Parkway		Meriden	CT	06450
Blake Contracting LLC	1506 Webster Street		Richmond	VA	23220
Blue Hills Electric LLC	8 Woodland Ave		Bloomfield	CT	06002
Bond Brothers Inc	370 James Street #405		New Haven	CT	06513
BVH Integrated Services	50 Griffin Road, South		Bloomfield	CT	06002
Capasso Restoration Inc	39 Sugar Hill Road		North Haven	CT	06473
Frank Capasso & Sons Inc	1003 Middletown Avenue		Northford	CT	06472
Cardinal Engineering Assoc Inc	3 Colony Street, #1		Meriden	CT	06451
Carlin Construction Company LLC	5 Shaw's Cove Suite 103		New London	CT	06320

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ATTACHMENT A
 ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
 APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
Caruso Electric Company	815 Farmington Avenue		New Britain	CT	06053
CDM Smith Inc	75 State Street, Suite 701	PO Box 4021	Boston	MA	02109
Ceiling Systems Inc	7 Diana Court		Cheshire	CT	06410
Chase Glass Company Inc	73-75 James Street		East Hartford	CT	06108
CJ Fucci Inc	715 State Street		New Haven	CT	06511
Claremont Corporation	35 Winsome Drive	PO Box 430	Durham	CT	06422
Clarus Glassboards	7537 Jack Newell Blvd North		Fortworth	TX	76118
Clay Furniture Industries Inc	41A Chapel Street		Manchester	CT	06040
ClearSpan Fabric Structures International Inc	1395 John Fitch Boulevard		South Windsor	CT	06074
Coastline Insulation LLC	74 Enterprise Drive #3		Monroe	CT	06468
Columbia Sheet Metal Company Inc	4 Commerce Drive		North Windham	CT	06256
Connecticut Carpentry Corporation	1850 Silas Deane Highway, 2nd Floor		Rocky Hill	CT	06067
Connecticut Mason Contractors Inc	191 Franklin Avenue		Hartford	CT	06114
Consolidated Edison Solutions Inc	100 Summit Lake Drive, #410		Valhalla	NY	10595
Corbett HVAC Services LLC	51 James Drive		North Windham	CT	06256
Dalene Hardwood Flooring Company	45 Nutmeg Road South	PO Box 145	South Windsor	CT	06074
Daniel O'Connells Sons Inc	234 Church Street, Suite 403		New Haven	CT	06510
Daniel's Caulking LLC	46 Kennedy Road, Unit 5		South Windsor	CT	06074
DC Sheetmetal LLC	135 Yantic Road	PO Box 6027	Yantic	CT	06389
Dicin Electric Company Inc	156 Cross Road		Waterford	CT	06385
Dime Oil Company LLC	93 Industry Lane	PO Box 1115	Waterbury	CT	06703
Diversified Tech Consultants	305 North Main Street, #9		Andover	MA	01810
Division 5 LLC	56 Berrios Hill Road		Windsor	CT	06095
Downes Construction Company LLC	470 Maple Avenue		Hartford	CT	06114
Eagle Environmental Inc	8 South Main Street, Suite 3		Terryville	CT	06786
Eastern Electric Inc		PO Box 2116	Vernon	CT	06066
EDI Landscape LLC	32 Belmont Street		Hartford	CT	06489
EF & G Construction Inc (DBA Eagle Fence & Guardrail Inc)	56 South Canal Street	PO Box 7077	Plainville	CT	06062
Electrical Energy Systems Corporation Voice & Data LLC	215 Captain Lewis Drive		Southington	CT	06489
Electrical Services Group LLC	37 Townsend Avenue		New Haven	CT	06512
Elmore Associates Inc	250 Sheldon Road		Manchester	CT	06042
Engineered Building Products Inc	18 Southwood Drive		Bloomfield	CT	06002
Engineered Coatings Inc	272 Norfolk Road		Litchfield	CT	06759
Environmental Testing & Balancing Inc	154 State Street, Suite 204		North Haven	CT	06473
Erection & Welding Contractors LLC	190 New Park Drive		Berlin	CT	06037
Evergreen Environments LLC	10 Turnberry Lane, Suite 1		Sandy Hook	CT	06482
The Jack Farrelly Company	97 Old Poquonock Road		Bloomfield	CT	06002

ATTACHMENT A
 ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
 APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
Ferguson Mechanical Company Inc	112 Northwest Drive		Plainville	CT	06062
Field Safety Corp	101 Fowler Road, #C		North Branford	CT	06471
Filloramo, John Construction Company	82 Glendale Road		South Windsor	CT	06074
Fire Rated LLC	254 Prospect Avenue		Hartford	CT	06106
Fisher Scientific Company LLC	2210 Johns Creek Court, Suite 500		Suwanee	GA	30024
Flow Tech Inc	800 Cottage Grove Boulevard, Building #3		Bloomfield	CT	06002
Forbes Asphalt Maintenance Inc	155 Brickyard Road		Farmington	CT	06032
Friar Associates Inc	281 Farmington Avenue		Farmington	CT	06032
Fusco Corporation	555 Long Wharf Drive, #14		New Haven	CT	06511
G & F Equipment Co Inc	266 East Street		Wolcott	CT	06716
G Donovan Associates Inc	627 Route 32, North Franklin, CT	PO Box 249	Franklin	CT	06254
Generation Drywall LLC	147 Comstock Trail		East Hampton	CT	06247
Gerard E LePine (DBA LePine Electric)	436 Lisbon Road		Canterbury	CT	06331
Gerber Construction, Inc	1 Nutmeg Drive		Ellington	CT	06029
Gilbane Building Company	208 New London Turnpike		Glastonbury	CT	06033
Giordano Construction Company Inc	175 North Main Street		Branford	CT	06405
Gold Seal Roofing & Sheetmetal Inc (DBA Gold Seal Home Improvement Inc)	1349 Waterbury Road		Thomaston	CT	06787
Goodco Painting Inc	2 Alcap Ridge, Unit B		Cromwell	CT	06416
Greenwood Industries Inc	88 Leonardo Drive		North Haven	CT	06473
Gym Source USA LLC	40 E 52nd Street		New York	NY	10022
Hartford Painting Company LLC	55 Timber Lane		Avon	CT	06001
Haz-Pros Inc	125-A Brook Street		West Hartford	CT	06110
HB Communications Inc	60 Dodge Avenue	PO Box 689	North Haven	CT	06473
Holly J Digertt LLC	264 Main Street		Rockfall	CT	06481
L Holzner Electric Company	596 John Street		Bridgeport	CT	06604
Hop River Concrete Inc	231 Route 6		Columbia	CT	06237
Horizon Services Corporation (DBA Horizon Services Company)	250 Governor Street		East Hartford	CT	06108
Imperial Company Restoration Contractor Inc	261 Main Street		Cromwell	CT	06416
Independent Elevator Company LLC	84 Zeya Drive		Coventry	CT	06238
Industrial Engineers Inc	267 Raymond Hill Road		Uncasville	CT	06382
Jacobs Project Management Company	1100 North Glebe Road, Suite 500		Arlington	VA	22201
JC Higgins Corporation (DBA Tucker Mechanical)	367 Research Parkway		Meriden	CT	06450
Johnson Controls	27 Inwood Road		Rocky Hill	CT	06067
Johnson Controls Fire Protection LP	80 Clark Drive, Unit 5-D		East Berlin	CT	06023
Joseph Campbell (DBA Eastern Mechanical)		PO Box 57	Lebanon	CT	06249
Kamco Supply Corporation of New England	2 Barnes Industrial Road, South		Wallingford	CT	06492
KBE Building Corporation Inc	30 Batterson Park Road		Farmington	CT	06032

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ATTACHMENT A
 ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
 APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
L & P Gate Company Inc	83 Meadow Street		Hartford	CT	06114
LP Electric LLC	12 Laurence Street		Vernon	CT	06066
LaRosa Building Group LLC	163 Research Parkway		Meriden	CT	06450
Lauretano Sign Group Inc	1 Tremco Drive, Plymouth Industrial Park		Terryville	CT	06786
Lin R Rogers Electrical Contractors	2050 Marconi Drive, Suite 200		Alpharetta	GA	30005
LK Sheet Metal Inc	35 Wrobel Place		East Hartford	CT	06108
Longhorn Locker Company LLC	503 County Road 109		Venus	TX	76084
MacKenzie Painting Company	60 Mead Street		Stratford	CT	06615
Mansfield Supply Inc	1527 Storrs Road		Storrs	CT	06268
Materials Testing Inc	42 Boston Post Road		Willimantic	CT	06226
Mather Corporation	21 West Dudley Town Road		Bloomfield	CT	06002
Mattern Construction Inc	26 Bushnell Hollow Road, #M		Baltic	CT	06330
MCM Acoustics LLC	151 New Park Avenue, #76		Hartford	CT	06106
McPhee Electric Limited LLC	505 Main Street		Farmington	CT	06032
Milone & MacBroom Inc	1350 Main Street		Springfield	MA	01103
Milton C Beebe & Sons Inc	12 Beebe Lane		Storrs	CT	06268
Modern Mechanical Systems Inc	519 Cooke Street	PO Box 492	Farmington	CT	06032
Ms Pipe LLC	49 Oakland Road		South Windsor	CT	06074
Network Installation Services Inc	192 North Plains Industrial Road		Wallingford	CT	06492
New England Caseworks	3 Arrow Drive		Woburn	MA	01801
New England Fitness Distributors Inc	270 Eastern Boulevard		Glastonbury	CT	06033
New England Laboratory Casework Co Inc	3 Arrow Drive		Woburn	MA	01801
New England Mechanical Services Inc	166 Tunnel Road		Vernon	CT	06066
New Haven Glass & Mirror	47 Laura Street		New Haven	CT	06512
NorthEast Electrical Distributors	90 Murphy Road		Hartford	CT	06114
Northeast Flooring & Kitchens LLC	233 B Kennedy Drive		Putnam	CT	06260
Northeast Lightning Protection LLC	10 Peters Road		Bloomfield	CT	06002
Northeast Printing Network LLC	135 Sebeth Drive, Suite 8		Cromwell	CT	06416
Northeastern Engineering and Contracting Company	115 Daleville School Road		Willington	CT	06279
Nosal Builders Inc	85 Fieldstone Court		Cheshire	CT	06410
The Nutmeg Companies Inc	1 Ohio Avenue		Norwich	CT	06360
Offshore Construction Inc	280 Hartford Road		Manchester	CT	06040
OFI Contract Interiors	28 Garfield Street		Newington	CT	06111
Old Colony Construction	10 Bluff Avenue #121		Clinton	CT	06413
One Mechanical Group LLC (DBA OMG Distribution)	445 Park Avenue		East Hartford	CT	06108
Otis Elevator Company	10 Farm Springs Road		Farmington	CT	06032
Paquette Electric Company Inc	368 Killingly Road	PO Box 159	Pomfret Center	CT	06259

ATTACHMENT A
 ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
 APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
PC Richard & Son Long Island		PO Box 9122	Farmingdale	NY	11735
Perfectly Plumb, LLC	215 Pickerel Lake Road		Colchester	CT	06415
PGP Group, LLC (DBA Atlas Companies)	30 Northeast Industrial Road		Branford	CT	06405
Red Thread	300 East River Drive		East Hartford	CT	06108
Richard's Corporation Inc	72 North Harwinton Avenue		Terryville	CT	06786
Richter & Cegan Inc	8B Canal Court		Avon	CT	06001
Rivco Construction LLC	10 Donna Drive		Burlington	CT	06013
Roadstone Construction LLC	2 Eastview Terrace		Rocky Hill	CT	06067
Robert H Lord Company	220 Chapel Road		Manchester	CT	06042
Roman Electric, LLC	23 Kozley Road		Tolland	CT	06084
Safety Solution Consultants Inc	99 Rainbow Road #H		East Granby	CT	06026
Sarazin General Contractors, Inc	6 North Commerce Drive		North Windham	CT	06256
Scholar Painting LLC (DBA Scholar Painting & Restoration)	2 Klarides Village Drive, #145		Seymour	CT	06483
Scope Construction Company Inc	416 Slater Road		New Britain	CT	06053
Security Technologies Inc		PO Box 5357	Bolton	CT	06043
Select Fence & Guardrail LLC	39 McDermott Road		North Haven	CT	06473
Siemens Industry Inc	104 Sebethe Drive		Cromwell	CT	06416
Sign Pro Inc	60 Westfield Drive		Plantsville	CT	06479
Sil/Carr Corporation	34 Newberry Road		East Windsor	CT	06088
Silktown Roofing Inc	27 Pleasant Street		Manchester	CT	06040
Siracusa Moving & Storage Inc	250 Commerce Circle		New Britain	CT	06051
Skanska USA Building Inc	545 Long Wharf Drive, 6th Floor		New Haven	CT	06511
Sound Mechanical Contractors LLC	82 Colonial Road		Manchester	CT	06042
Southern New England Electrical Testing LLC	3 Buel Street, Unit 4		Wallingford	CT	06492
Special Testing Laboratories Inc	21 Henry Street		Bethel	CT	06801
Spectrum Floors Inc	299 Blacks Road	PO Box 861	Cheshire	CT	06410
Stamford Wrecking Company	30 Nutmeg Drive		Trumbull	CT	06611
Standard Demolition Services Inc	555 Bostwick Avenue		Trumbull	CT	06611
Stantec Consulting Services	13980 Collection Center Drive		Chicago	IL	60693
Steeltech Building Products Inc	636 Nutmeg Road North		South Windsor	CT	06074
Strategic Building Solutions LLC	135 New Road, #2		Madison	CT	06443
Sullivan Benson LLC	112 Northwest Drive		Plainville	CT	06062
Summit Masonry & Building Restoration	178 Front Avenue		West Haven	CT	06516
Sunbelt Rental Inc	265 Murphy Road		Hartford	CT	06114
Superior Painting LLC	66 Borghesi Court		Wolcott	CT	06716
Swan Associates Inc	49 Holly Drive		Newington	CT	06111
System Specialties Inc	452 Smith Street		Middletown	CT	06457

ATTACHMENT A

ALPHABETICAL LISTING OF CONTRACTORS AND SUBCONTRACTORS
APRIL 1, 2019 THRU SEPTEMBER 30, 2019

COMPANY NAME	ADDRESS 1	ADDRESS 2	CITY	STATE	ZIP CODE
SystemOne LLC	215 Captain Lewis Drive		Southington	CT	06489
Tabacco & Son Builders Inc	45 Stafford Avenue		Bristol	CT	06010



June 8, 2017

State of Connecticut Debarment List Pursuant to Section 31-53a(a)

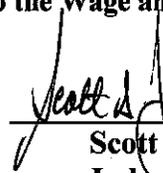
No contract shall be awarded to any person or firms appearing on this list or to any firm, corporation, partnership, or association in which such persons or firms have an interest until the expiration date listed has elapsed.

Please be informed that the following persons or firms have been debarred in accordance with Section 31-53a of the Connecticut General Statutes, as amended:

DEBARMENT LIST

<u>Name of Person or Firm</u>	<u>Expiration Date</u>
-Canterbury Communications, Canterbury Marion T. Mershon, an individual	Indefinite Indefinite
-City Electrical Enterprises LLC, Hartford Lloyd Thompson, an individual	Indefinite Indefinite
-Elite Roofing, Cheshire Sam Stevens, an individual	Indefinite Indefinite
-Gatollari Enterprises Inc., Rochelle Park, NJ Robert Gatollari, an individual	Indefinite Indefinite
-Greenland Enterprises Inc., Wayne, NJ Oneil Mendez, an individual Raymond Blum-Romero, an individual	Indefinite Indefinite Indefinite
-Jarosz Welding Company Inc., Hartford Andrew W. Jarosz, an individual	Indefinite Indefinite
-SCD Services, LLC, Somers Philip Snow, an individual	Indefinite Indefinite
-Seakco Construction, Stamford Robert Evans, an individual	Indefinite Indefinite
-Sun Ray Electric, Prospect Reinaldo DeSousa, an individual	Indefinite Indefinite

Any inquiries regarding this list should be directed to the Wage and Workplace Standards Division at (860)263-6790.



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Labor Commissioner

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