

Finance Committee Testimony
President Susan Herbst
University of Connecticut
-March 2013-

Co-Chairs, Ranking Members, and members of the Committee, thank you for having us here today and for all of your support of the University of Connecticut. Your tremendous investments in UConn are the reason we are a top choice for Connecticut residents, and are ranked 21st among public research universities in the nation.

My statement today is similar to the detailed remarks I delivered to the Bonding Subcommittee last week, so I will try to be brief.

The primary reason I came to UConn is how well-supported it has been by this body over many years. We are so very fortunate that our governors and legislators realize the importance of their flagship university in educating our future leaders, and being a key lever in economic development. Few *legislatures in the nation* understand this right now, and ours is one, thanks to you.

Nothing speaks as loudly about the success of a university than student demand. Students and parents know value, and they seek the kind of excellence UConn offers at a very competitive price. Demand to attend UConn is astounding and keeps growing. In 2012, we had approximately 31,400 applications for our freshman class of 4,400 (at all our campuses).

The University of Connecticut is very grateful to Governor Malloy for proposing the extraordinary *Next Generation Connecticut* initiative outlined in Senate Bill 840. While there is a major 10-year capital component of this initiative that stretches out the UCONN 2000 program until 2024, there is also an operating budget component – separate from SB 840 -- reflected in the University's FY15 state appropriation.

You may be wondering how *Next Generation Connecticut* builds upon the progress of UCONN 2000 and 21st Century. Those programs allowed UConn to address decades of a neglected infrastructure enabling us to focus on numerous classroom facilities, information technology, general utilities, residence halls, and other infrastructure needs. Many science facilities were constructed and others renovated, but also major non-STEM facilities were built and renovated in Storrs and at our regional campuses. The transformation of our campuses attests to our stewardship. However, our STEM facilities are now at capacity. *Next Generation Connecticut* is a targeted program aimed specifically to expand our STEM teaching and research classrooms and labs.

Today you are hearing from many people who are concerned about the difficult decisions you must make to balance the state's budget. You may be wondering, with such a large deficit, is this the appropriate time for the type of initiative represented by *Next Generation Connecticut*?

I believe that the answer is an emphatic "YES." Just as the Research Triangle in North Carolina has allowed that region to thrive despite economic downturns, this initiative will create a solid foundation upon which we can achieve a prosperous, economically dynamic Connecticut. The

Research Triangle works because it has two truly great public research universities, and they have boosted the prosperity and success in that state in marvelous ways. We would like to do the same.

Next Generation Connecticut will expand critical STEM activities at UConn and drive innovation, enhancing job creation and economic growth. With targeted strategic investments in facilities, faculty and students, UConn will be an increasingly vital STEM institution, fueling Connecticut's economy with new technologies, highly skilled graduates, new companies, patents, licenses, and high-wage STEM jobs. *Next Generation Connecticut* will create both construction jobs immediately and sustainable long-term employment.

Other states have made major investments in STEM research. In all of these states there were impressive returns on investments. It works and we have the data to prove it.

It is now Connecticut's time to act; we want to catch up to great states and leap ahead in key areas, like Genomics, Material Science, Cognitive Neuroscience, Marine Science and Digital Media. *Next Generation Connecticut* will make that happen. And this initiative will finally enable us to reach the top. Connecticut deserves to have a great top public research university that *leads* scientific discovery.

I believe it is my duty to help get us there, to the top, and to always be honest with you about what it will take. I assure you that, if we pursue *Next Generation Connecticut*, we will have our University of Michigan for this state – an international university of the highest order. Connecticut deserves it, and we can actually make this happen.

Dr. Mun Choi, our Provost, will now speak about the proposal in more detail. After that, I'm happy to answer questions about this, but also any others you may have on any aspect of the university.

Again, my thanks for your incredible support of the University of Connecticut, over so many years.



University of Connecticut

NEXT GENERATION CONNECTICUT

Building Connecticut's Economic
Future through STEM

March 2013

The Need for CT STEM Investment



Connecticut Rankings:

- #25 in Entrepreneurial Activity (Kauffman Foundation)
- #39 in Non-Industry R&D Investments (KF)
- #50 in Job Churn (KF)
- 2nd Quartile - State funding for public research university per number of enrolled students (NSF)
- 1st Quartile – Engineers as a % of workforce (NSF)
- 3rd Quartile – BS degrees in natural science & engineering per 1,000 degree conferrals (NSF)
- 3rd Quartile – Science & engineering Ph.D. conferrals as % of S&E degrees
- 4th Quartile – New high tech business formation as % of all business establishments

STEM: A SMART INVESTMENT FOR CT



- Strong support from industry partners to grow STEM enrollment, research & economic development
- STEM jobs grew 3 times faster than non-STEM jobs (2000-2010)
- 2/3 of GDP growth is driven by STEM innovations
- Nearly 20% of STEM workforce is 55+ years old
- Increased STEM activities will leverage CT's current STEM initiatives: Bioscience CT, JAX Genomics Medicine & Tech Park

Sources: Bureau of Labor Statistics, National Academy of Engineering, National Science Foundation

3

STEM: A SMART INVESTMENT FOR UCONN



STEM Education in 2012:

- More than 240% increase in STEM applications since 2001
- More than 120% increase in STEM degrees awarded since 2001
- STEM attracts high-potential students based on SAT & GPA

STEM Research in 2012

- \$900M in STEM research proposals (\$460M @ Storrs)
- \$170M in STEM research awards (\$98M @ Storrs)

Workforce & Economic Development in 2012:

- 70% of UConn graduates work in CT to support the economy
- Over 100 intellectual property applications per year
- \$332M in business & economic activity from faculty research

4

STEM INVESTMENTS TO BE COMPETITIVE



- STEM education involves learning through laboratory experience, capstone design, research and industry projects
- UCONN 2000 STEM facilities are at full capacity:
 - Chemistry, Info Technology & Engineering, Pharmacy/Biology, Biology/Physics, Marine Science, Ag-Biotech, etc
- Pre-1960's era STEM facilities are outdated and at full capacity:
 - Gant, Torrey, Beach, Koons, Atwater, Engineering II, Bio-Science Laboratory, Bronwell, Longley, *UTEB*, etc.
- Faculty cannot compete for major research grants or effectively teach students using outdated STEM facilities
- Needs include facilities & staff for Manufacturing, High Performance Computing, Bio-Safety Laboratories, fMRI, Electron Microscopes, Systems Genomics, etc.

5

NEXT GENERATION CT OVERVIEW



Increase Undergraduate (UG) Enrollment by 6,580 (30%)

- Increase STEM UG students by 3,290 (42%)
- Increase Engineering UG students by 1,410 (70%)
- Increase other STEM UG students by 1,800 (33%)
- Create Premier STEM Honors Program, Scholarships & Living/Learning Communities
- Increase Digital Media UG students by 840
- Increase Risk Management & Global Business UG students by 680

Hire Faculty & Improve Infrastructure

- 259 new faculty (in addition to 290 from current plan)
- 200 STEM faculty (in addition to 175 STEM faculty from current plan)
- Develop critical facilities for research & teaching

6

Capital Program Goals and Needs



7

NEXT GENERATION CT COMPONENTS



\$902M to construct new facilities

- Multiple STEM buildings: \$760M for 750K gross square feet of research/teaching labs & offices for 375 STEM faculty
 - Additional floors for Engineering/Science building
 - Torrey addition
 - 2 new science buildings
 - Institute for Materials Science & Physics
- General Education Faculty Building: \$60M
- Classroom Building: \$50M for 80K gross square feet of new space
- Housing: \$32M for 2 dorms with 800 beds total & \$10M for housing in Stamford

8

NEXT GENERATION CT COMPONENTS



\$415.5M to renovate/repurpose facilities

- Repurpose Torrey & Gant research space for teaching labs and classrooms and general renovations: \$295.5M
- Housing: \$40M to convert existing housing to a STEM Living & Learning Community
- Greater Hartford Campus: \$70M to relocate & consolidate the West Hartford Campus, School of Social Work & Financial Accelerator to downtown Hartford

9

NEXT GENERATION CT COMPONENTS



\$457.5M for equipment & infrastructure

Equipment

- Information Technology data center & capacity upgrades: \$50M
- Faculty start-up equipment: \$67.5M
- fMRI, biosafety labs, additive manufacturing equipment: \$30M

Infrastructure

- Steam line repair: \$100M
- Water system & upgrade: \$17M (add'l \$8M from Tech Park)
- Sewer system upgrades: \$42M
- Other upgrades (electrical/heating/cooling): \$58M
- Parking, public transportation & roadways: \$93M

10

NEXT GENERATION CT COMPONENTS



Stamford Component of New School of Fine Arts & Digital Media

- Undergraduate/graduate degrees in animation, visual effects & production, game development, motion media design, sports entertainment, data visualization & 'Big Data Analytics'

Stamford Business Programs

- Undergraduate degrees & graduate certificates* in financial risk management, crisis management, sports management, global business, business/engineering (dual graduate degree)

Proposed Growth	
Undergrad Enrollment	1,520/110%
Undergrad Degrees	304/119%
Faculty	35
State Operating Request	\$2.3M
UConn Commitment*	\$3.6M

\$10M Capital Request for Housing and Campus Enhancements

* The expansion of the graduate degree and advanced certificate programs will all be funded by UConn

NEXT GENERATION CT COMPONENTS



Downtown Hartford Campus Relocation

- Greater Hartford Campus serves the most diverse student group at UConn
- Enhanced accessibility & service to low income/high-potential students
- Enhanced service learning & internship opportunities for undergraduate & graduate education programs
- Expanded economic activity through increased interaction with local businesses
- Direct contributions to state workforce development from professional graduate programs in Business, Engineering, Public Administration & Social Work
- Proximity will increase transfer access for community college students

RETURN ON INVESTMENT



- Median income of CT residents with STEM degrees earn \$11K more per year than graduates with other degrees
- Every \$1M in NIH research funding supports 15 jobs (salary of \$60K)
- Each new science/technology job creates more than one additional job
 - A chemical manufacturing job creates 3.1 additional jobs
 - A computers & electronics job creates 1.3 additional jobs
- For every new research \$1, CT will gain \$1.95 in business activity
- Every \$2M in research expenditures yields a patent
- Investments will increase research productivity to \$300K for STEM faculty
- By 2024 this initiative will yield Connecticut:
 - \$146M in new research awards & \$285M in new business activity
 - 135 patents & disclosures per year
 - 2,190 new permanent jobs
 - 30,000 total construction jobs

Sources: State Higher Education Executive Officers, National Institutes of Health, Connecticut Economic Resource Center

13

FY 2015 OPERATING PROPOSAL: \$25.9M



- \$17.4M State request; \$8.5M UConn commitment
- Increase undergraduate enrollment by 785 (285 @ Stamford)
- Hire 38 faculty (20 STEM faculty)
- Establish premier Connecticut STEM Honors Program
 - 325 scholarships for the best students
 - 325 "Big Idea!" grants for undergraduate research projects with top faculty
 - STEM industry internship/co-op experiences
- Award 15 STEM fellowships to train outstanding doctoral students
- Increase Stamford Campus programs by expanding Digital Media & Business

14

FUNDING PROPOSAL



Operating (\$M)*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
State Request	\$17.4	\$33.8	\$54.0	\$70.3	\$80.6	\$92.7	\$102.4	\$113.0	\$123.8	\$137.0
UConn Commitment	\$8.5	\$13.1	\$20.2	\$28.9	\$35.4	\$41.3	\$48.2	\$54.8	\$62.4	\$69.8

* Amounts shown are cumulative & in addition to support of current faculty hiring plan of \$79M

Capital Request (\$M)*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
Academic & Research Facilities	\$45.0	\$60.0	\$90.0	\$120.5	\$128.0	\$187.0	\$97.0	\$45.5	\$68.0	\$29.0
Deferred Maintenance	33.5	46.5	59.9	99.1	97.0	65.0	50.0	31.5	30.0	30.0
Equipment	14.0	14.0	17.5	14.0	14.0	17.0	14.5	14.0	14.0	14.5
Hartford Relocation	30.0	40.0								
Residential Life Facilities	20.0	20.0			12.0			20.0		
Parking Garage # 3							30.0	33.0		
Stamford Campus Housing	5.0	5.0								
Total Request	\$147.5	\$185.5	\$167.4	\$233.6	\$251.0	\$269.0	\$191.5	\$144.0	\$112.0	\$73.5

* Amounts shown are annual increments and include the reallocation of existing UCONN 2000 funds

ENROLLMENT & FACULTY INCREASES



Enrollment*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
Storrs STEM	325	627	1,075	1,503	1,808	2,098	2,404	2,692	2,998	3,290
Storrs non-STEM	175	338	580	810	975	1,130	1,294	1,451	1,615	1,770
Stamford	285	575	955	1,310	1,430	1,520	1,520	1,520	1,520	1,520
Total Enrollment	785	1,540	2,610	3,623	4,213	4,748	5,218	5,663	6,133	6,580
Faculty*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
Storrs STEM	12	24	46	66	86	116	136	156	176	200
Storrs non-STEM	8	16	24	24	24	24	24	24	24	24
Stamford	18	26	35	35	35	35	35	35	35	35
Total Faculty	38	66	105	125	145	175	195	215	235	259

* Amounts shown are cumulative



EXAMPLES FROM OTHER STATES

- Over 20 years, Georgia’s \$400M investment in research yielded \$2B in federal and private funds and created 5000 new technology jobs and 120 new technology companies
- In the University of California system, every dollar of state-funded research in 2000-2001 led to an additional \$3.89 in federal and private funding
- At UConn: Four new faculty in Pharmacy increased research expenditures in the department from \$2.9M in FY08 to \$5.3M in FY12 (up to \$600K per faculty member per year)



IMPACT OF STATE INVESTMENT

	FY96 (Fall 1995)	FY13 (Fall 2012)
Undergraduate Students	14,667	22,301
Grad/Professional Students	7,804	7,427
Tenure/Tenure-Track Faculty	1,012	1,061
Full-Time Staff	2,662	3,028
UConn SAT (National Avg)	1113 (1013)	1226 (1010)
Bachelor’s Degrees	2,839	5,149
6 Year Graduation Rate	70%	82%
MS/PhD Degrees	1,310/239	1,573/341
Research Awards (w/UCHC)	\$56M (\$98M)	\$124M (\$200M)
Scholarships/Grants	\$28M	\$142M

From FY96-FY12:

- Research awards totaled \$1.5B (\$2.9B w/UCHC)
- Business activity from research totaled \$3.0B (\$5.6B w/UCHC)



University of Connecticut

Appendix

Capital Plan



UCONN

To accommodate the additional faculty and staff and over 6,500 students, major capital investment is required. This investment includes new and renovated facilities for research and teaching labs, classrooms, academic support, dormitories, dining, parking, water, steam lines, information technology, equipment and various infrastructure upgrades.

Capital Plan



New STEM facilities will provide state of the art research space to accommodate a growing faculty, students and their research. To enable the University to recruit outstanding faculty and develop emerging interdisciplinary research collaborations, expansion of research space is necessary. This includes multi-disciplinary laboratories, centralized core facilities and equipment. Funding of \$760 million will construct approximately 750,000 gross square feet of space to meet the needs of 375 STEM faculty and their students. The University anticipates expanding the new Engineering & Science building as well as the addition of new science facilities and/or the expansion of existing buildings.

21

Capital Plan



Other University initiatives include consolidation of programs and creation of new and renovated academic learning environments for various STEM and supporting initiatives which includes development of academic program space. A \$50 million building will provide 80,000 gross square feet of new classroom space to support the expansion of the student population and introduce new learning technologies. \$60 million will support other new buildings to replace out dated facilities and provide additional academic program support areas to ensure student success. \$295.5 million will allow the University to repurpose existing space into teaching laboratories in the Gant and Torrey complexes.

22

Capital Plan



The consistently high demand for on-campus housing at the University and the planned enrollment growth will require new dormitories. To enable the University to recruit high achieving STEM students, \$40 million will be utilized to convert existing housing into a STEM Living & Learning Community. In addition, to meet the housing demands of the expanded student body, two new dorms will be constructed and will provide another 800 beds.

23

Capital Plan



The University expects to undertake, in consultation with local communities, improvements to its parking, public transportation and roadways to accommodate the growth in student enrollment and faculty populations. This includes \$93 million for centralizing parking through new structured facilities, relocation of existing parking lots and various traffic improvements throughout campus.

24

Capital Plan



\$217 million in funding is included for infrastructure upgrades such as steam line replacement, sewer system upgrades in coordination with additional water supply, and various other underground utilities improvements such as power will be required to support the renovation of existing buildings and the development of new facilities.

25

Capital Plan



\$30 million is for acquisition of shared equipment such as the functional magnetic resonance imaging system (fMRI), Bio-safety laboratories, and additive manufacturing equipment that will enable faculty collaborations across diverse disciplines in STEM. \$67.5 million is for startup equipment to recruit 200 new STEM faculty. Startup equipment can include advanced lasers, sensors, cell culture facilities, atomic force microscopes, polymer extruders, metals processing equipment, etc. This equipment will be critical in growing the capabilities of the faculty to compete for major research grants in emerging areas of manufacturing, materials, energy, biomedical technologies, information science and systems genomics. In addition, \$50 million will be used for information technology data center and capacity upgrades.

26

Next Generation Connecticut

Building Connecticut’s Economic Future through STEM

Background & Overview

Connecticut has historically been known as the birthplace of invention and innovation. Connecticut inventors created the cotton gin, anesthesia, the first submarine, helicopter, color television, the portable typewriter and a range of industrial technologies. The technical proficiency that contributed to Connecticut’s economy has declined dramatically. According to the Kaufmann Foundation New Economy 2010 Report, Connecticut ranked #14 in high-tech jobs, #15 in patents, #22 in entrepreneurial activity and #37 in non-industry R&D investments. Connecticut’s long-term economic competitiveness can be re-invigorated with key investments for pioneering R&D and vital educational programs in the STEM (science, technology, engineering, and math) disciplines. This proposal, *Next Generation Connecticut*, will expand critical STEM activities at UConn and drive innovation, enhancing job creation and economic growth. With these key, targeted strategic investments in facilities, faculty and students, UConn will be an increasingly vital STEM institution, fueling Connecticut’s economy with new technologies, highly skilled graduates, new companies, patents, licenses, and high-wage STEM jobs.

Next Generation Connecticut

As part of this ambitious, ten-year plan, the University proposes to hire innovative faculty, build new facilities and enroll talented students, as follows:

- Hire 259 new faculty (of which 200 will be in STEM)
- Enroll an additional 6,580 talented undergraduate students
- Build STEM facilities to house materials science, physics, biology, engineering, cognitive science, genomics and related disciplines
- Construct new STEM teaching laboratories
- Create a premier STEM Honors program
- Upgrade aging infrastructure to accommodate new faculty and students
- Expand digital media and risk management degree programs and provide student housing in Stamford
- Relocate Greater Hartford Campus to downtown Hartford

Proposed Funding

Proposed capital and operating funding for *Next Generation Connecticut* will be allocated incrementally between FY15 and FY24.

Operating (\$M)*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
State Request	\$17.4	\$33.8	\$54.0	\$70.3	\$80.6	\$92.7	\$102.4	\$113.0	\$123.8	\$137.0
UConn Commitment	\$8.5	\$13.1	\$20.2	\$28.9	\$35.4	\$41.3	\$48.2	\$54.8	\$62.4	\$69.8

*Amounts shown are cumulative & in addition to support of current faculty hiring plan of \$79M.

Capital Request (\$M)*	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
Academic & Research Facilities	\$45.0	\$60.0	\$90.0	\$120.5	\$128.0	\$187.0	\$97.0	\$45.5	\$68.0	\$29.0
Deferred Maintenance	33.5	46.5	59.9	99.1	97.0	65.0	50.0	31.5	30.0	30.0
Equipment	14.0	14.0	17.5	14.0	14.0	17.0	14.5	14.0	14.0	14.5
Hartford Relocation	30.0	40.0								
Residential Life Facilities	20.0	20.0			12.0			20.0		
Parking Garage # 3							30.0	33.0		
Stamford Campus Housing	5.0	5.0								
Total Request	\$147.5	\$185.5	\$167.4	\$233.6	\$251.0	\$269.0	\$191.5	\$144.0	\$112.0	\$73.5

* Amounts shown are annual increments and include the reallocation of existing UCONN 2000 funds.

UConn will commit significant institutional resources to launch *Next Generation Connecticut* by contributing \$235M in reallocated UCONN 2000/21st Century UConn funds for the building program and \$149M in operating funds to support the academic program components.

Emphasis on STEM

According to a recent study by *Georgetown University's Center on Education & Workforce*, eight million U.S. jobs will be available in STEM fields. Nationally, overall employment is projected to grow 9.6% from 2010 to 2020. Connecticut labor analysis projects a similar trend. For example, the Connecticut Department of Labor, projects the need for 54% more biomedical engineers. But report after report shows that the next generation of American employees will be unprepared for these jobs. Of 34 industrialized countries, American students rank 17th in science and 25th in math scores. This gap between demand and supply limits our nation's ability to solve the complex problems of our time, inhibits the innovation required to remain competitive, and results in severe long-term economic consequences for our country. However, this situation also provides Connecticut with a unique opportunity.

Next Generation Connecticut will have a tremendous impact on the reversal of these trends and grow Connecticut's STEM workforce to enable our state to compete effectively in the global marketplace. According to the National Academy of Engineering, two-thirds of the growth in our GDP has its roots in STEM. The U.S. Bureau of Labor Statistics reports that:

- STEM jobs grew 3 times faster than non-STEM jobs in the last decade
- STEM jobs are projected to continue to grow by 17% ('08-'18), as compared to 10% in non-STEM
- It is anticipated that approximately 20% of the STEM workforce is over the age of 55+ and may retire over the next 10 years.

For these reasons, increasing our STEM enrollment, hiring additional STEM faculty, doubling our research funding, and constructing and renovating STEM facilities comprise the components of this bold proposal.

Return on Investment (ROI)

Next Generation Connecticut will create both construction jobs and sustainable long-term employment. This proposal will also leverage and maximize the state's related investments in Bioscience CT, JAX, UCONN 2000/21st Century UConn and the UConn Tech Park.

- By 2024, *Next Generation Connecticut* will yield:
 - \$146M per year in new research awards (118% increase)
 - \$285M per year in new business activity in CT (118% increase) resulting from research at UConn
 - 2,190 new or 4,050 total permanent jobs
 - 30,000 total construction jobs through 2024

ROI	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
New Research Awards	\$43	\$65	\$77	\$86	\$96	\$108	\$117	\$126	\$136	\$146M
New Business Activity	\$84	\$127	\$151	\$169	\$187	\$210	\$228	\$246	\$264	\$285M
New Jobs	643	975	1,158	1,296	1,435	1,618	1,757	1,895	2,034	2,190

Other states (Appendix A) have made similar investments in STEM research, creating jobs and increasing their economies. In each state, positive outcomes have accrued; jobs have been created, with strong ROI. It is now our time and the University is prepared to join the ranks of the top STEM institutions and states in the country.

Return on Previous Investments

Why does the University need an additional infusion for *Next Generation Connecticut*? Due to chronic under funding, UConn focused UCONN 2000 and 21st Century UConn on numerous teaching facilities, general utilities, information technology, residence halls, and infrastructure. Additionally, the University constructed science facilities, including the new Chemistry, Information Technology, Pharmacy/Biology, Marine Sciences and Agriculture Biotechnology buildings. Additionally, the University renovated a number of current facilities for Life Sciences, Biobehavioral Science, Education, and Nursing. The University has major projects underway, including our new Engineering and Psychology buildings, and the renovation of our Agricultural research facilities. While these university-wide investments have allowed us to increase STEM enrollment by 115 percent, UConn must do more to produce many more STEM graduates to meet workforce shortages and drive discoveries that will fuel Connecticut's long-term economic growth.

The UCONN 2000 and 21st Century UConn investments are the major contributors to UConn's growing reputation for academic excellence and its emergence as a leader in higher education in the Northeast, drawing top students from Connecticut and the rest of the nation. UConn's rise during the past 16 years has been astounding, the result of strategic state support that was wisely invested in both facilities and infrastructure. Beginning in 1996, UConn's

- Research awards increased by 119%
- Undergraduate enrollment increased by 52%
- Undergraduate STEM enrollment increased by 115%
- Average freshman SAT scores increased by 113 points to 1226

- Undergraduate degrees awarded per year increased by 75%
- Graduate/professional degrees awarded per year increased by 40%

Record numbers of applications from high-caliber students and support for student success resulted in UConn's increase in national rankings from #38 to #21 among public universities, according to *U.S. News and World Report*. UConn currently enrolls 13% of Connecticut's high school seniors and our fall 2012 class, once again, included the largest, most diverse, and most academically talented students ever admitted.

This further investment in STEM will result in dramatic increases in both STEM research and STEM graduates, in turn producing innovations and inventions that will directly contribute to sustainable economic growth for Connecticut.

Capital Program:

To accommodate the additional faculty and staff and over 6,500 students, major capital investment is required. This investment includes new and renovated facilities for research and teaching labs, classrooms, academic support, dormitories, dining, parking, water, steam lines, information technology, equipment and various infrastructure upgrades.

New STEM facilities will provide state of the art research space to accommodate a growing faculty, students and their research. To enable the University to recruit outstanding faculty and develop emerging interdisciplinary research collaborations, expansion of research space is necessary. This includes multi-disciplinary laboratories, centralized core facilities and equipment. Funding of \$760 million will construct approximately 750,000 gross square feet of space to meet the needs of 375 STEM faculty and their students. The University anticipates expanding the new Engineering & Science building as well as the addition of new science facilities and/or the expansion of existing buildings.

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faculty populations. This includes \$93 million for centralizing parking through new structured facilities, relocation of existing parking lots and various traffic improvements throughout campus.

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Appendix A. State Investment Examples

A. California

United for Medical Research's 2011 study, *An Economic Engine* shows that in 2010, NIH invested \$4,021,000,000 in California, producing 71,633 new jobs. The National Institutes of Health contribute more than \$3 billion per year to the state economy through biomedical research facilities. This supports an industry that provides 267,000 California jobs with an average annual wage of more than \$71,000 according to the Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center and the Los Angeles Area Chamber of Commerce. The Association of American Medical Colleges reports that the member medical schools and teaching hospitals in the state had a combined economic impact of \$41.6 billion (ranked 3rd in the country) and a total employment impact of 238,000 in 2008. California's Proposition 71 authorized \$3 billion to support stem cell research and is expected to save between \$6.4 and \$12.6 billion in health care costs.

Each dollar of spending by the California State University (CSU) system generates another \$2.13 to the economy. The CSU system supports 150,000 jobs annually and pays over \$995 million in taxes to California.

Each dollar produced in the life sciences sector in San Diego generates \$1.10 beyond it through indirect and induced impacts. The life sciences industry in San Diego supports 55,600 jobs and has an economic impact of \$5.8 billion dollars (accessing report requires registration).

Within the University of California system, every dollar of state-funded research in 2000-2001 led to an additional \$3.89 through federal and private funding. Overall UC expenditures had an economic impact between \$14 and \$17 billion and supported 370,000 California jobs.

In 2005-2006, the UC Berkeley had a total economic impact of more than \$1.5 billion in the Bay Area and supported more than 31,000 area jobs. In addition, UC Berkeley spent \$469 million on research and reported 128 inventions.

UC Davis reports that every dollar the state invests in the university returns \$5 to the state. UC Davis generated 45,000 jobs for California and contributed \$2.7 billion to the state economy in 2001-2002.

UC Irvine has an annual economic impact of \$3.6 billion in Orange County and employs more than 17,000 people.

Every taxpayer dollar invested in the University of California, Los Angeles generates nearly \$15 in economic impact in the region. UCLA has a \$9.3 billion impact on the area and supports 70,000 jobs.

The University of California, San Diego had a national economic impact of \$5.1 billion and generated 319,000 jobs nationwide.

The University of California, San Francisco generates more than 23,000 jobs and reported \$1.8 billion in sales in 2003.

B. Maryland

Governor Martin O'Malley, joined by scientists and researchers at the Johns Hopkins Institute for Cell Engineering, today unveiled a new vision for the bioscience industry in Maryland. Under the BIO 2020 Initiative, the State of Maryland will invest \$1.3 billion in Maryland's bioscience industry over the next 10 years – the largest per capita investment in the biosciences made by any state in the country – to attract and grow biotechnology companies in Maryland. Recognizing potential for the region's growth in the emerging bioscience industry, the GBC has emerged as a leading organization, supporting the development of two bioscience parks. The University of Maryland Baltimore's BioPark on Baltimore's west side and the Science + Technology Park Johns Hopkins, coupled with an 80-acre neighborhood revitalization on Baltimore's east side are projected to generate up to 10,000 new jobs. Through communications and outreach, the GBC also works to educate business, community and political leaders about the regional economic growth potential in the life science industry.

C. Washington

The State of Washington has earmarked a portion of its tobacco settlement dollars to fund bioscience R&D through the \$350 million Life Sciences Discovery Fund (SB 5581), and in 2006 began allocating \$35 million annually to research projects with economic development potential, including recruitment and facility enhancements. The state projects to leverage \$1 billion in additional external research funding over its 10-year lifetime and create 20,000 jobs with about 15 years. The fund adopts a broad definition of the life sciences, encompassing biotech, pharmaceuticals, biomedical technologies, life system technologies, nutraceuticals, and food processing, environmental and biomedical devices. It is governed by an 11-member board of trustees that evaluates grants for their potential health-care impact, future employment impact, and geographic diversity. A 2-1 match from external sources is required.

D. Georgia

The Georgia Research Alliance Eminent Scholars Program was created by business and university leadership to attract the world's pre-eminent scientists to Georgia's universities to lead programs of research and development in areas with the most potential for generating new high-value companies, helping established companies grow and creating new high-wage jobs. With the financial backing of the state legislature in 2010, the state's research universities, private foundations and other supporters, the Eminent Scholars Program is marshalling the required talent and resources and driving an effective strategy for achieving these results. To date, the Alliance has invested some \$400 million, which has helped to attract more than 50 Eminent Scholars, leverage an additional \$2 billion in federal and private funding, create more than 5,000 new technology jobs, generate some 120 new technology companies, and allow established Georgia companies to expand into new markets.

E. Ohio

The Biosciences industry directly supports over 62,000 jobs in Ohio. Ohio's bioscience employees' average salary is more than \$68,000. The overall average salary for Ohio workers is about \$41,000. The biosciences industry paid employees from 1,800 + locations in Ohio more than \$4.2 billion dollars in 2009.1 \$796 million in NIH-funding supports more than 13,000 in-state jobs.

F. Colorado

The Bioscience Discovery Evaluation Grant Program (BDEGP) was created in 2006 by the Colorado General Assembly to grow the bioscience industry in the state. The BDEGP provides gap funding to advance promising research from Colorado's outstanding research institutions into the market place. The bioscience industry in Colorado is strengthened by such efforts, resulting in long-term job creation and company formation.

The State leverages this investment in the industry by requiring a one-to-one match for both Proof of Concept and Early-Stage Company grants. The economic benefit is realized near-term in the strengthening of our research institutions, the jobs required to fulfill the grant work, and the products and services purchased to complete grant work. Longer-run payouts come in the form of additional capital investment into the technologies and companies, the creation of new companies, and growing businesses adding high quality jobs. Approximately \$22.1 million from the BDEGP Cash Fund has been granted and will garner at least an equal amount in matching funds (excluding Commercialization Infrastructure grants). Of 184 grants made or approved under the program by the end of 2011, 96 have completed work while the others are in process. To date, the program successes include the creation of 34 new Colorado companies and the direct creation of 302 jobs. Additionally, these funds have helped the technologies acquire an additional \$95 million dollars in grants and investments to further commercialize these bioscience technologies.

G. Florida

United for Medical Research's 2011 study, An Economic Engine shows that in 2010, NIH invested \$509,000,000 in Florida, producing 13,741 new jobs. The Association of American Medical Colleges reports that the member medical schools and teaching hospitals in the state had a combined economic impact of \$19.4 billion (ranked 9th in the country) and a total employment impact of 147,000 in 2009. Florida's Jackson Laboratory Institute for Personalized Medicine attracts \$60,000,000 million annually in NIH grants for their research in genetic therapy. In 2005-2006, the University of Florida had an economic impact on the state of \$5.85 billion and supported 74,900 jobs. The University of South Florida has an economic impact of \$3.2 billion on the Tampa Bay area. In 2001, the State of Florida's investments in University Research Centers generated nearly 7,000 jobs. The return on investment of state funding of research was 217%. The Scripps Florida Biotech Research Institute is expected to support nearly 6,500 jobs and contribute \$3.2 billion to the Gross State Product during its first 15 years.

University of Connecticut
Next Generation Connecticut: Science, Jobs and Retaining Connecticut's Best Minds
Funding Request

Operating Request	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	
Positions											
Faculty	38	66	105	125	145	175	195	215	235	259	
Staff	28	48	68	88	108	118	128	138	148	158	
Total Positions	66	114	173	213	253	293	323	353	383	417	
UConn Operating Contribution											
Tuition Revenue (from additional enrollment)	\$7,849,914	\$12,435,896	\$19,562,050	\$26,450,278	\$32,214,960	\$37,673,483	\$44,082,990	\$50,176,504	\$57,287,995	\$64,123,677	
Provost/School of Business Reallocations	658,931	658,931	658,931	658,931	658,931	658,931	658,931	658,931	658,931	658,931	
Philanthropy				1,750,000	2,500,000	3,000,000	3,500,000	4,000,000	4,500,000	5,000,000	
Total UConn Operating Contribution	\$8,508,845	\$13,094,827	\$20,220,981	\$28,859,209	\$35,373,891	\$41,332,414	\$48,241,921	\$54,835,435	\$62,446,926	\$69,782,608	
Personal Services	\$9,938,969	\$16,102,005	\$24,907,574	\$32,612,978	\$41,130,388	\$51,496,762	\$60,481,595	\$70,334,819	\$81,125,194	\$94,079,717	
Other Expenses											
Misc Operating Needs	7,518,813	13,098,813	21,378,813	29,274,813	34,914,813	40,254,813	45,894,813	51,234,813	56,874,813	62,238,813	
Staff Operating Support	800,000	1,600,000	2,600,000	3,400,000	4,200,000	5,000,000	5,600,000	6,200,000	6,800,000	7,480,000	
STEM Scholarships	5,224,200	11,158,800	17,511,648	24,235,624	25,250,517	26,304,492	27,093,626	27,906,435	28,743,628	29,605,937	
Big Idea Grants	1,625,000	3,250,000	5,000,000	6,750,000	7,500,000	8,000,000	8,500,000	9,000,000	9,500,000	10,000,000	
STEM Fellowships	811,710	1,670,580	2,812,851	2,878,494	2,946,668	3,017,502	3,091,127	3,167,683	3,247,317	3,330,183	
Total Operating Expenses^A	\$25,918,692	\$46,880,198	\$74,210,886	\$99,151,908	\$115,942,387	\$134,073,568	\$150,661,161	\$167,843,750	\$186,290,952	\$206,734,650	
Less UConn Operating Contribution	(8,508,845)	(13,094,827)	(20,220,981)	(28,859,209)	(35,373,891)	(41,332,414)	(48,241,921)	(54,835,435)	(62,446,926)	(69,782,608)	
State Operating Request	\$17,409,847	\$33,785,372	\$53,989,905	\$70,292,699	\$80,568,495	\$92,741,154	\$102,419,240	\$113,008,315	\$123,844,026	\$136,952,041	
State Operating Request-Storrs	\$15,087,748	\$31,463,273	\$51,667,806	\$67,970,600	\$78,246,396	\$90,419,055	\$100,097,141	\$110,686,216	\$121,521,927	\$134,629,942	
State Operating Request-Stamford	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	\$2,322,099	
Capital Request											Total
Academic & Research Facilities	\$45,000,000	\$60,000,000	\$90,000,000	\$120,500,000	\$128,000,000	\$187,000,000	97000000	45500000	68000000	29000000	\$870,000,000
DM: Water & Steam	15,000,000	20,000,000	15,000,000	27,000,000	20,000,000	20,000,000					117,000,000
DM: General Renovations	18,500,000	26,494,000	44,900,000	72,106,000	77,000,000	45,000,000	50,000,000	31,500,000	30,000,000	30,000,000	425,500,000
Equipment	14,000,000	14,000,000	17,500,000	14,000,000	14,000,000	17,000,000	14,500,000	14,000,000	14,000,000	14,500,000	147,500,000
Hartford Relocation Acquisition/Renovation	30,000,000	40,000,000									70,000,000
Residential Life Facilities	20,000,000	20,000,000			12,000,000			20,000,000			72,000,000
Parking Garage #3							30,000,000	33,000,000			63,000,000
Stamford Campus Improvements/Housing	5,000,000	5,000,000									10,000,000
Total Capital Proposal	\$147,500,000	\$185,494,000	\$167,400,000	\$233,606,000	\$251,000,000	\$269,000,000	\$191,500,000	\$144,000,000	\$112,000,000	\$73,500,000	\$1,775,000,000
Existing UCONN 2000 Funding	42,500,000	75,494,000	61,900,000	55,106,000							235,000,000
Total Capital Request^B	\$105,000,000	\$110,000,000	\$105,500,000	\$178,500,000	\$251,000,000	\$269,000,000	\$191,500,000	\$144,000,000	\$112,000,000	\$73,500,000	\$1,540,000,000

^A Amounts shown are cumulative and are in addition to support of current faculty hiring plan of \$79 million.

^B Amounts shown are annual increments.



UCONN fact sheet 2013

Campus Information

Founded 1881

Main Campus: Storrs

5 Regional Campuses:

Avery Point, Greater Hartford, Stamford, Torrington, Waterbury

School of Law and Graduate Business Learning Center: Hartford

School of Social Work: Greater Hartford Campus

Health Center: Farmington

(Schools of Medicine & Dental Medicine, graduate programs, medical & dental clinics & John Dempsey Hospital)

Land Grant & Sea Grant college, Space Grant consortium institution

Storrs & Regionals = 4,067 acres; Health Center = 205 acres

UCONN 2000

As of October 2012:

- 108 projects totaling \$2.1 billion in bonds have been authorized
- \$2.0 billion in construction-related contracts issued from all fund sources
 - 64% of funds to Connecticut contractors
 - 19% of funds to set-aside contractors
- In excess of 10 million square feet of new and renovated space completed
- Bond Credit Ratings by Fitch, Moody's and Standard & Poor's remain consistently strong

Academic Programs & Degrees

14 Schools & Colleges

Agriculture & Natural Resources, Business, Dental Medicine, Neag Education, Engineering, Fine Arts, Graduate, Law, Liberal Arts & Sciences, Medicine, Nursing, Pharmacy, Ratcliffe Hicks, Social Work

8 undergraduate degrees: 102 majors

17 graduate degrees: 88 research and professional practice fields of study

5 professional degree programs (J.D., LL.M., M.D., D.M.D., Pharm.D.)

Degrees 2011-12 7,770

Bachelor's	5,149
Master's	1,573
Doctorates	341
Law (J.D., LL.M.)	234
Pharm.D.	94
Medicine	87
Dental Medicine	47
Graduate/Professional Certificates	141
6 Yr. Education	79
2 Yr. Agriculture	25

Degrees by: Female 53%

Minority 19%

Total Fall 2012 Student Enrollment: 30,256

17,528	Undergraduate at Main Campus
4,773	Undergraduate at Regional Campuses
22,301	Subtotal Undergraduate
6,613	Graduate (M.A./Ph.D., incl. 321 at Health Center)
623	Law
191	Pharm.D.
359	Medicine
169	Dental Medicine
7,955	Subtotal Graduate/Professional

Fall 2012 Entering Freshmen at Main Campus: 3,114

- 48% were in top 10% of high school class
- 84% were in top 25% of high school class
- 63 valedictorians and 63 salutatorians
- 213% more minority freshmen than in Fall '95
- Since 1995: 1,538 valedictorians and salutatorians enrolled at all campuses

Student Characteristics Fall 2012

	Undergraduate 22,301	Grad/Professional 7,955
Female	50%	51%
Minority	26%	17%
International¹	3%	18%
Connecticut Residents²	81%	70%

¹ 98 countries were represented in the Fall 2012 international student population.

² 76% of undergraduates on Main Campus are Connecticut residents.

All 169 Connecticut towns and 46 of 50 states are represented in the Fall 2012 total undergraduate student population.

SAT Scores and Retention & Graduation Rates

2012 SAT Scores (Critical Reading and Math)	National High School	Connecticut High School	Storrs Entering Freshmen
	1010	1018	1226

Main Campus	All	Minority
Freshmen Retention:		
1-Year Rate	93%	91%
Graduation:		
4-Year Rate	67%	59%
6-Year Rate	82%	77%

UConn (Main Campus) ranks 12 out of 58 public research universities in graduation rate for all freshmen and 21 out of 58 public research universities for minority freshmen. (Sources: *U.S. News 2013 America's Best Colleges & 2011 IPEDS Graduation Rate Survey*) UConn (Main Campus) average time to graduate is 4.2 years among those who graduate within 6 years, and ranks 4 out of 58 public research universities.

Total Undergraduate Student Cost 2012-13

	In-State	Out-of-State
Tuition, Fees, Room¹ & Board²	\$22,502	\$40,334
Tuition & Mandatory Fees	11,362	29,194
Tuition Only	8,712	26,544

¹ 72% of Main Campus undergraduates live in campus housing (117 residential halls).

² Board rate shown reflects most popular plan available.

Student Financial Aid FY 2012

Financial Aid Support: \$406.5 million

	Main Campus/ Regional ¹	Health Center
Scholarships & Grants	\$137.9 million	\$5.3 million
Loans	177.1 million	16.1 million
Student Employment	21.3 million	
Tuition Waivers	48.8 million	

¹ 40.1% of all tuition dollars are dedicated to financial aid. Approximately 21,000 students received financial aid packages in FY 2012.

Total Current Funds Budget FY 2013: \$1.9 billion

STORRS & REGIONAL CAMPUSES

Revenue	In Millions
State Appropriation	\$205.6
Fringe Benefits	86.9
Student Tuition & Fees	533.0
Gifts, Grants & Contracts	176.1
Sales/Services - Auxiliary Enterprises	34.0
Sales/Services - Educational	17.5
Investment Income	0.8
<i>Total</i>	<u>\$1,053.9</u>
Expenditures	
Academic Services	\$434.8
Research Services	78.1
Student Services	383.6
Operating, Support & Physical Plant Services	158.4
<i>Total</i>	<u>\$1,054.9</u>

HEALTH CENTER

Revenue	In Millions
State Appropriation	\$112.7
Fringe Benefits	48.0
Tuition & Fees	18.5
Gifts, Grants & Contracts	84.9
Interns & Residents	55.2
Net Patient Care	365.2
Correctional Managed Care	85.6
All other revenues	41.3
<i>Total</i>	<u>\$811.4</u>
Expenditures	
Hospital & Health Services	\$428.6
Academic Services	168.4
Research Services	94.6
Operating, Support & Physical Plant Services	119.8
<i>Total</i>	<u>\$811.4</u>

[†]The net loss is due to a planned use of fund balance.

Private Giving FY 2012

- Total Endowment: At the close of FY 12, the University's endowment, which stood at \$42 million at the start of 1995, was valued at approximately \$329 million.
- In FY 12, private fundraising receipts totaled \$60 million: \$27.4 million for Storrs and the regional campuses, \$10.9 million for the Health Center, and \$21.8 million for Athletics.
- Alumni contributed \$21 million in FY 12. Additional commitments included \$19 million from parents and other individuals, and \$20 million from corporations, private foundations and other organizations.

Staff Characteristics (Fall 2012)

Number of Full-time & Part-time Faculty & Staff: 9,872

	Main Campus/ Regional	Health Center
Full-time & Part-time Faculty & Staff	4,624	5,248
Full-time Faculty & Staff	4,405 (95%)	4,002 (76%)
Part-time Faculty & Staff [†]	219 (5%)	1,246 (24%)
Full-time Faculty	1,377	505
Tenured & Tenure Track	1,061 (77%)	190 (38%)
Non-Tenure Track	316 (23%)	315 (62%)
Full-time Staff	3,028	3,497
Full-time & Part-time Faculty		
Female	40%	39%
Minority	22%	28%
Full-time & Part-time Staff		
Female	58%	77%
Minority	17%	24%

[†]An additional 686 adjunct lecturers teach one or more courses at Storrs and Regional Campuses.

Staff Covered by Collective Bargaining Agreements:

Main Campus & Regional Campuses	90%
Health Center	80%

Research, Training & Public Service

FY 12 external funding, sponsored activities: \$207.4 million (excluding financial aid):

Main & Regional Campuses:	\$122.5 million (59%)
Health Center:	\$ 84.9 million (41%)

Total by Funding Source

Federal: 73% State: 11% Private/Other: 16%

Sponsored Activities at Main & Regional Campuses

Research	80.9%
Education and Training Programs	1.7%
Public Service	17.4%

Sponsored Activities at the Health Center

Research	93.0%
Industry Support	1.2%
Education and Training Programs	3.6%
Other	2.2%

UConn Alumni

- More than 217,000 total alumni worldwide
- More than 121,000 alumni live in Connecticut