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.
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)
- 2\textsuperscript{nd} Quartile - State funding for public research university per number of enrolled students (NSF)
- 1\textsuperscript{st} Quartile – Engineers as a % of workforce (NSF)
- 3\textsuperscript{rd} Quartile – BS degrees in natural science & engineering per 1,000 degree conferrals (NSF)
- 3\textsuperscript{rd} Quartile – Science & engineering Ph.D. conferrals as % of S&E degrees
- 4\textsuperscript{th} 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

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
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.

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
Capital Program Goals and Needs

- 500+ New Faculty
- 6,580 New Students
- Innovative New Programs

- Teaching & Research Laboratories
- Classrooms
- Academic Support
- Dormitories & Dining Services
- Parking & Transit Services

- New & Renovated Facilities
- Robust Water, Steam, Power Systems
- Information Technology Capacity

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
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

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, pubic transportation & roadways: $93M
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)

<table>
<thead>
<tr>
<th>Proposed Growth</th>
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<tbody>
<tr>
<td>Undergrad Enrollment</td>
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<tr>
<td>Undergrad Degrees</td>
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<td>Faculty</td>
<td>35</td>
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<tr>
<td>State Operating Request</td>
<td>$2.3M</td>
</tr>
<tr>
<td>UConn Commitment*</td>
<td>$3.6M</td>
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</tbody>
</table>

$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

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
# FUNDING PROPOSAL

<table>
<thead>
<tr>
<th>Operating (SM)*</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
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<td>State Request</td>
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* Amounts shown are cumulative & in addition to support of current faculty hiring plan of $79M

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<tr>
<th>Capital Request (SM)*</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
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<th>FY22</th>
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<td>Academic &amp; Research Facilities</td>
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<td>$167.4</td>
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<td>$191.5</td>
<td>$144.0</td>
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* Amounts shown are annual increments and include the reallocation of existing UCONN 2000 funds

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# ENROLLMENT & FACULTY INCREASES

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

* 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

<table>
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<tr>
<th>Category</th>
<th>FY96 (Fall 1995)</th>
<th>FY13 (Fall 2012)</th>
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<td>Undergraduate Students</td>
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<td>Grad/Professional Students</td>
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<td>Tenure/Tenure-Track Faculty</td>
<td>1,012</td>
<td>1,061</td>
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<td>Full-Time Staff</td>
<td>2,662</td>
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<td>UConn SAT (National Avg)</td>
<td>1113 (1013)</td>
<td>1226 (1010)</td>
</tr>
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<td>Bachelor’s Degrees</td>
<td>2,839</td>
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<td>6 Year Graduation Rate</td>
<td>70%</td>
<td>82%</td>
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<td>MS/PhD Degrees</td>
<td>1,310/239</td>
<td>1,573/341</td>
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<tr>
<td>Research Awards (w/UCHC)</td>
<td>$56M ($98M)</td>
<td>$124M ($200M)</td>
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<tr>
<td>Scholarships/Grants</td>
<td>$28M</td>
<td>$142M</td>
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</table>

From FY96-FY12:
- Research awards totaled $1.5B ($2.9B w/UCHC)
- Business activity from research totaled $3.0B ($5.6B w/UCHC)
Appendix

Capital Plan

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.

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 outdated 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.
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.

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.
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.

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.
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.

<table>
<thead>
<tr>
<th>Operating ($M)*</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
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<td>$13.1</td>
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<td>$28.9</td>
<td>$35.4</td>
<td>$41.3</td>
<td>$48.2</td>
<td>$54.8</td>
<td>$62.4</td>
<td>$69.8</td>
</tr>
</tbody>
</table>

*Amounts shown are cumulative & in addition to support of current faculty hiring plan of $79M.
Capital Request (SM)* | 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 | 99.1 | 97.0 | 14.0 | 17.0 | 14.5 | 14.0 | 14.5  
Hartford Relocation | 30.0 | 40.0 | 20.0 | 20.0 | 12.0 | 30.0 | 30.0 | 20.0 | 20.0  
Residential Life Facilities | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0  
Parking Garage # 3 | 30.0 | 33.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0  
Stamford Campus Housing | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 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

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

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.

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.

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.

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.

$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.

$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.
Selected References:


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. $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

<table>
<thead>
<tr>
<th>Positions</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>38</td>
<td>66</td>
<td>105</td>
<td>125</td>
<td>145</td>
<td>175</td>
<td>195</td>
<td>215</td>
<td>235</td>
<td>259</td>
</tr>
<tr>
<td>Staff</td>
<td>28</td>
<td>48</td>
<td>68</td>
<td>88</td>
<td>108</td>
<td>118</td>
<td>128</td>
<td>138</td>
<td>148</td>
<td>158</td>
</tr>
<tr>
<td><strong>Total Positions</strong></td>
<td><strong>66</strong></td>
<td><strong>114</strong></td>
<td><strong>173</strong></td>
<td><strong>213</strong></td>
<td><strong>253</strong></td>
<td><strong>293</strong></td>
<td><strong>323</strong></td>
<td><strong>353</strong></td>
<td><strong>383</strong></td>
<td><strong>417</strong></td>
</tr>
</tbody>
</table>

#### UConn Operating Contribution

- **Tuition Revenue (from additional enrollment):**
  - FY15: $7,849,914
  - FY16: $12,435,896
  - FY17: $19,562,050
  - FY18: $26,450,278
  - FY19: $32,214,960
  - FY20: $37,673,483
  - FY21: $44,082,990
  - FY22: $50,176,504
  - **Total:** $375,014,350

- **Provost/School of Business Reallocations:**
  - FY15: 658,931
  - FY16: 658,931
  - FY17: 658,931
  - FY18: 658,931
  - FY19: 658,931
  - FY20: 658,931
  - FY21: 658,931
  - FY22: 658,931
  - **Total:** 1,317,862

- **Philanthropy:**
  - FY15: 1,750,000
  - FY16: 2,500,000
  - FY17: 3,000,000
  - FY18: 3,500,000
  - FY19: 4,000,000
  - FY20: 4,500,000
  - FY21: 5,000,000
  - FY22: 5,000,000
  - **Total:** 26,250,000

- **Total UConn Operating Contribution:**
  - FY15: $8,508,845
  - FY16: $13,094,827
  - FY17: $20,220,981
  - FY18: $28,859,209
  - FY19: $35,373,891
  - FY20: $41,332,414
  - FY21: $48,241,921
  - FY22: $54,835,435
  - **Total:** $329,920,000

- **Personal Services:**
  - FY15: $9,938,969
  - FY16: $16,102,005
  - FY17: $24,907,574
  - FY18: $32,612,978
  - FY19: $41,130,388
  - FY20: $51,496,762
  - FY21: $60,481,595
  - FY22: $70,334,819
  - **Total:** $94,079,717

- **Other Expenses:**
  - Misc Operating Needs: $7,518,813
  - Staff Operating Support: 800,000
  - STEM Scholarships: 5,224,200
  - Big Idea Grants: 1,625,000
  - STEM Fellowships: 811,710
  - **Total Operating Expenses:**
    - FY15: $25,918,692
    - FY16: $46,880,198
    - FY17: $74,210,886
    - FY18: $99,151,908
    - FY19: $134,071,908
    - FY20: $167,843,750
    - FY21: $206,734,942
    - **Total:** $793,028,458

- **State Operating Request:**
  - FY15: $17,409,847
  - FY16: $33,785,372
  - FY17: $53,989,905
  - FY18: $80,292,495
  - FY19: $92,741,154
  - FY20: $102,419,240
  - FY21: $113,008,315
  - FY22: $123,844,026
  - **Total:** $136,952,041

  - State Operating Request-Storrs: $15,087,748
  - State Operating Request-Stamford: $2,322,099

#### Capital Request

<table>
<thead>
<tr>
<th>Capital Request</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic &amp; Research Facilities</td>
<td>$45,000,000</td>
</tr>
<tr>
<td>DM: Water &amp; Steam</td>
<td>$15,000,000</td>
</tr>
<tr>
<td>DM: General Renovations</td>
<td>$18,500,000</td>
</tr>
<tr>
<td>Equipment</td>
<td>$14,000,000</td>
</tr>
<tr>
<td>Hartford Relocation Acquisition/Renovation</td>
<td>$30,000,000</td>
</tr>
<tr>
<td>Residential Life Facilities</td>
<td>$20,000,000</td>
</tr>
<tr>
<td>Parking Garage #3</td>
<td>$5,000,000</td>
</tr>
<tr>
<td>Stamford Campus Improvements/Housing</td>
<td>$5,000,000</td>
</tr>
<tr>
<td><strong>Total Capital Proposal</strong></td>
<td>$147,500,000</td>
</tr>
<tr>
<td>Existing UConn 2000 Funding</td>
<td>$42,500,000</td>
</tr>
<tr>
<td><strong>Total Capital Request</strong></td>
<td>$190,000,000</td>
</tr>
</tbody>
</table>

---

**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.
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

<table>
<thead>
<tr>
<th>Undergraduate</th>
<th>Grad/Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>22,301</td>
<td>7,955</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Grad/Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>50%</td>
<td>51%</td>
</tr>
<tr>
<td>Minority</td>
<td>26%</td>
<td>17%</td>
</tr>
<tr>
<td>International</td>
<td>3%</td>
<td>18%</td>
</tr>
<tr>
<td>Connecticut Residents</td>
<td>81%</td>
<td>70%</td>
</tr>
</tbody>
</table>

1 96 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

<table>
<thead>
<tr>
<th>2012 SAT Scores (Critical Reading and Math)</th>
<th>National High School</th>
<th>Connecticut High School</th>
<th>Storrs Entering Freshmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>1010</td>
<td>1018</td>
<td>1226</td>
<td></td>
</tr>
</tbody>
</table>

Main Campus
Freshmen Retention: 1-Year Rate 93% Minority 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

<table>
<thead>
<tr>
<th></th>
<th>In-State</th>
<th>Out-of-State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition, Fees, Room &amp; Board</td>
<td>$22,502</td>
<td>$40,334</td>
</tr>
<tr>
<td>Tuition &amp; Mandatory Fees</td>
<td>11,362</td>
<td>18,194</td>
</tr>
<tr>
<td>Tuition Only</td>
<td>8,712</td>
<td>26,544</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Main Campus/ Regional</th>
<th>Health Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships &amp; Grants</td>
<td>$137.9 million</td>
<td>$5.3 million</td>
</tr>
<tr>
<td>Loans</td>
<td>177.1 million</td>
<td>16.1 million</td>
</tr>
<tr>
<td>Student Employment</td>
<td>21.3 million</td>
<td></td>
</tr>
<tr>
<td>Tuition Waivers</td>
<td>48.8 million</td>
<td></td>
</tr>
</tbody>
</table>

40.1% of all tuition dollars are dedicated to financial aid. Approximately 21,000 students received financial aid packages in FY 2012.
**Staff Characteristics (Fall 2012)**

Number of full-time & part-time faculty & staff: 9,872

<table>
<thead>
<tr>
<th></th>
<th>Main Campus/Regional</th>
<th>Health Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time &amp; part-time faculty &amp; staff</td>
<td>4,624 (95%)</td>
<td>5,248</td>
</tr>
<tr>
<td>Full-time faculty &amp; staff</td>
<td>4,405 (95%)</td>
<td>4,002 (76%)</td>
</tr>
<tr>
<td>Part-time faculty &amp; staff</td>
<td>219 (5%)</td>
<td>1,246 (24%)</td>
</tr>
<tr>
<td>Full-time faculty</td>
<td>1,377</td>
<td>505</td>
</tr>
<tr>
<td>Tenured &amp; tenure track</td>
<td>1,061 (77%)</td>
<td>190 (38%)</td>
</tr>
<tr>
<td>Non-tenure track</td>
<td>316 (23%)</td>
<td>315 (62%)</td>
</tr>
<tr>
<td>Full-time staff</td>
<td>3,028</td>
<td>3,497</td>
</tr>
<tr>
<td>Full-time &amp; part-time faculty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>40%</td>
<td>39%</td>
</tr>
<tr>
<td>Minority</td>
<td>22%</td>
<td>28%</td>
</tr>
<tr>
<td>Full-time &amp; part-time staff</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>58%</td>
<td>77%</td>
</tr>
<tr>
<td>Minority</td>
<td>17%</td>
<td>24%</td>
</tr>
</tbody>
</table>

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

**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