NYSUNY 2020 Challenge Grant Proposal

THE UNIVERSITY AT ALBANY

SEPTMBER 2012

THEWorld WITHIN REACH

THE EMERGING TECHNOLOGY AND ENTREPRENEURSHIP COMPLEX
UAlbany NYSUNY 2020 core objectives:

- Advance cutting-edge innovative research & technology and translate into economic opportunity

- Continue to bolster the Capital Region’s economic boom

- Increase academic opportunity for every student at UAlbany
Why build the Emerging Technology and Entrepreneurship Complex (E-TEC)?
Last year, alone, the University at Albany’s faculty generated more than $450 million in research expenditures.
Translate academic research into economic opportunity

“New York can and must do more to convert its tremendous research capacity into direct & sustainable economic impact.”

David J. Skorton, Chair
Task Force on Diversifying the NYS Economy through Industry-Higher Education Partnerships
December 2009

E-TEC provides an opportunity for the Empire State to become a national leader.
ETEC: Creating an Entrepreneurial Ecosystem

E-TEC

- Training
- Tech Transfer
- Workforce Preparation
- Commercialization Services
- Small Biz Development
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INVESTMENT & FUNDING
RESEARCHERS
STUDENTS
BUSINESS & INDUSTRY
Commercialized Technology to Market
Entrepreneurs
ETEC: Creating an Entrepreneurial Ecosystem

Atmospheric and Environmental Science

Biomedical Science and Biotechnology

Forensic Science and Cyber Security

Advanced Data Analytics
TRANSFORMATIVE R&D CLUSTERS

Atmospheric and Environmental Science

E-TEC will pursue advances in environmental prediction to ensure government can prepare for natural disasters, help climate-sensitive industries make smarter business decisions, and speed the development of clean energy systems.
TRANSFORMATIVE R&D CLUSTERS

Biomedical Sciences and Biotechnology

E-TEC will pursue advances in treatments for neurodegenerative diseases, infectious disease, and cancer, and growing jobs in the pharmaceutical and biotech industries.
TRANSFORMATIVE R&D CLUSTERS

Forensic Science and Cyber Security

E-TEC will build on the University’s internationally recognized strength in crime scene forensics technology and counter-terrorism and homeland security research.
TRANSFORMATIVE R&D CLUSTERS

Advanced Data Analytics

E-TEC will build on the University’s strength in developing analytic techniques and computational tools that will make New York-based industries more competitive.
Cutting-edge industry partners.

Seven corporations and private spin-off enterprises have already expressed interest in partnering with E-TEC.
E-TEC will fuel research at the College of Nanoscale Science and Engineering

E-TEC R&D will strengthen collaborations with CNSE, particularly in the areas of biotechnology, instrumentation, environmental sensors and solar energy research.
E-TEC will be constructed and located on the Main Campus

- 225,000 square feet for laboratories, classrooms, and business development offices

East side of Main Campus
E-TEC will create short-term jobs in addition to long-term economic opportunity

CONSTRUCTION COSTS:
- $165 million to build a state-of-the-art educational and research facility

JOBS:
- 1,587 constructions jobs

TIMELINE:
- Kick-off in: 2013
- Completion in: 2017
Transparency In Our Process

Strict standards of accountability and transparency.

Compliance with New York State statutes related to conflict of interest, as well as the SUNY Board of Trustees’ policies.
UALBANY NYSUNY 2020 IMPACT

JOB CREATION AND ECONOMIC GROWTH

1,587 new construction jobs
UALBANY NYSUNY 2020 IMPACT

NEW PERMANENT UNIVERSITY JOBS

- Faculty Positions 187
- Research Support Staff 355
- University Support Positions 193

TOTAL JOBS CREATED 735
UALBANY NYSUNY 2020 IMPACT

PRIVATE AND FEDERAL RESEARCH FUNDING

NYSUNY 2020 Generates More Economic Activity.

E-TEC

NYSUNY 2020

Generates $117 Million in New Research Funding

$450 Million in Existing Research Funding

More Opportunities for Commercialization
UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Every College and School across the campus will benefit from UAlbany’s NYSUNY 2020 plan.
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ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Expanding Course Offerings by adding 700 courses
UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Will work to eliminate need for 5th year because of limited class availability by Improving Graduation Rates by 7% which will result in 100 more students graduating each year.
UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

We will grow enrollment by **1,350 new students** over the next 5 years.
UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Training a New generation of entrepreneurs
ENSURING AFFORDABILITY & ACCESS

In order to ensure that access and affordability are protected, an amount equal to 30% per year of the undergraduate tuition increase – $5.2 Million – will be set aside for TAP eligible students.
UALBANY NYSUNY 2020 IMPACT

ENSURING AFFORDABILITY & ACCESS

We will also increase the level of merit based financial assistance by $2.5 million to programs including our Carson Carr and Frederick Douglas scholarship programs.
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DIVERSITY & INCLUSION

Building upon and Extending our Diversity Efforts across our Campus Community and Beyond.
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MINORITY AND WOMEN OWNED BUSINESS ENTERPRISE
We will continue to build upon and strengthen our MWBE Outreach Efforts setting a goal of 25 percent for all NYSUNY 2020 contracts.
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PUBLIC – PRIVATE PARTNERSHIPS

VAISALA
Old Model: The Wild, Wild West...

Entrepreneur → Idea → Success or Failure

10 Years of Trial by Error
New Model: An entrepreneurial ecosystem

- Training
- Small Biz Development
- Commercialization Services
- Workforce Preparation
- Tech Transfer

INVESTMENT & FUNDING
RESEARCHERS
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Commercialized Technology to Market
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UALBANY NYSUNY 2020 IMPACT

ECONOMIC IMPACT

The Capital Region Economic Development Council unanimously approved the University at Albany’s NYSUNY 2020 plan as a Transformational Project.
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STRONG COMMUNITY SUPPORT

More than 300 Capital Region business and community leaders and more than 2,000 friends of UAlbany have come together in support of the University’s NYSUNY 2020 plan.
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ECONOMIC IMPACT

UAldany’s plan generates a total job impact of over 2,300 jobs in the Capital Region.
UALBANY NYSUNY 2020 IMPACT

ECONOMIC IMPACT

Our NYSUNY 2020 initiative will generate more than $1.8 billion in economic impact throughout the Capital Region—50 times the investment of the NYSUNY 2020 Challenge Grant.