UMass Lowell
Expanding the Innovation Economy
The UMass System was ranked 56th in the 2010 Times of London ranking of international research universities.

UMass Lowell is located in the key Industrial Innovation Region, ~ 50 km (< 1 hour) northwest of Boston.

14,702 students
~ 25% graduate students
> 40% in Engineering/
Science/ Health
UMass Lowell Higher Ed Rankings

- US News & World Report, in top 200 research universities
- Chronicle of Higher Education 2011 - leading New England public research institution in increasing student success
- Payscale.com – Highest-paying of all public New England colleges, mid-career
- American Association of University Professors: Category I
- Curricular Engagement and Outreach & Partnerships (Carnegie Foundation for the Advancement of Teaching designation)
UMass Lowell Overview

- 120+ Academic Programs (doctoral, masters, bachelors)
- 500+ Faculty (14:1 student-faculty ratio)
- Representative Education of Faculty:
  - Harvard University
  - MIT
  - UIUC
  - UC Berkeley
  - Stanford University
  - Princeton University
  - Cornell University
UMass Lowell – Experiential Learning

• Real World Education
  – Academic programs have a practical focus, giving graduates the hands-on experience to excel in their careers.
Industry Partnerships: A Broad Range of Industry Sectors and Sizes

CeraNova Corporation
Leading Edge Research
Research Expenditures Top $59m in FY10

- Nanomanufacturing – 1 of 4 NSF Nanomanufacturing Centers in the US
  - Chemical/Biological Sensors
  - Health and Environmental Nano

- Environment and Health
  - Sustainable Production
  - Health Professions/Health Promotion
    - NIOSH Center of Excellence
      (1 of 3 in US)

- Life Sciences
  - Biomanufacturing
  - Medical Devices and Biomedical Engineering
  - Medical Physics/Radiological Sciences
    - 1 of 26 research reactors in the US
      (only one at a public univ in the Northeast)
Leading Edge Research
Research Expenditures Top $59m in FY10

- Electro-mechanical and computer science
  - Cyberforensics
  - Robotics

- Submillimeter-wave technology

- Energy
  - Photovoltaics
  - Wind Energy
  - Advanced Materials

The Merrimack Valley’s University
Growing Research

Research Expenditures in Millions

FY07: 36.1
FY10: 59.3

Up 64%
Realizing the Return on Investment

• Expand Business Incubator
  – M2D2 companies:
    Vasotech, Vista et al
  – $80M plus in venture capital from graduated companies

• Increase Licensing of Intellectual Property
  – e.g. Metabolix, Boston Scientific

• Create New Spinoffs
  - Konarka
  - Anterios
  - Dartmouth Medical Research
Research Infrastructure

$70 M, 84,000 sq ft

Emerging Technologies & Innovation Center

Will house nanomanufacturing, biomedical, flexible electronics R&D and help catalyze related industries
# Who We Are

<table>
<thead>
<tr>
<th>Doctoral Research University, Intensive</th>
<th>An urban campus</th>
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<tbody>
<tr>
<td>Five colleges and a Graduate School of Education</td>
<td>125 acres along both sides of the Merrimack River in Lowell, 25 miles from Boston</td>
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<tr>
<td>Bachelor’s, Master’s and Doctoral degrees</td>
<td>Three campus clusters</td>
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<tr>
<th>Rich 100+ - year history</th>
<th>Athletics</th>
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<tr>
<td><strong>1890s</strong> Lowell State College and Lowell Technological Institute founded</td>
<td>16 varsity sports</td>
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<tr>
<td><strong>1975</strong> Those predecessor institutions merged to form University of Lowell</td>
<td>NCAA Division II program with Division I ice hockey</td>
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<td><strong>1991</strong> UMass Lowell became part of the UMass system</td>
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