University of Illinois at Urbana-Champaign, Electrical and Computer Engineering Building
Design Presentation, Prepared for: The Board of Trustees of the University of Illinois, March 2010
# ECE Illinois … a beacon

![Pie chart showing program areas]

<table>
<thead>
<tr>
<th>Program Areas</th>
<th>NSF</th>
<th>% of Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructional Lab</td>
<td>30,374</td>
<td>25%</td>
</tr>
<tr>
<td>Clean Room</td>
<td>3,895</td>
<td>3%</td>
</tr>
<tr>
<td>Auditoriums &amp; Classrooms</td>
<td>22,029</td>
<td>18%</td>
</tr>
<tr>
<td>Student Lounge &amp; Study Area</td>
<td>9,281</td>
<td>8%</td>
</tr>
<tr>
<td>Research Lab</td>
<td>15,348</td>
<td>13%</td>
</tr>
<tr>
<td>Office</td>
<td>29,983</td>
<td>25%</td>
</tr>
<tr>
<td>Other</td>
<td>10,150</td>
<td>8%</td>
</tr>
</tbody>
</table>
• M-1: Improved Building Envelope
• M-2: Passive Solar Design
• M-3: Chilled Beam Cooling System
• M-4: Ventilation Energy Recovery Wheels
• M-5: Displacement Ventilation
• M-7: Heat Recovery Chiller
• M-8: Air Side Economizer
• M-10: Ventilation Occupancy Sensors
• M-11: Premium Efficient Motors
• P-2: Low Flow Plumbing Fixtures
• E-1: Photovoltaic Production (300kW)
• E-3: Reduced Lighting Density
• E-5: Lighting Occupancy Sensor
• E-6: Daylight Harvesting/Control

energy consumption 72% under ASHRAE 2004 targeting LEED platinum engineering strategies
Fundamental research space.  Room to grow and innovate.
Learning space.  Special event space.
A sense of community.  Student organizations out in front.
Inspiration.  A home base for ECE.