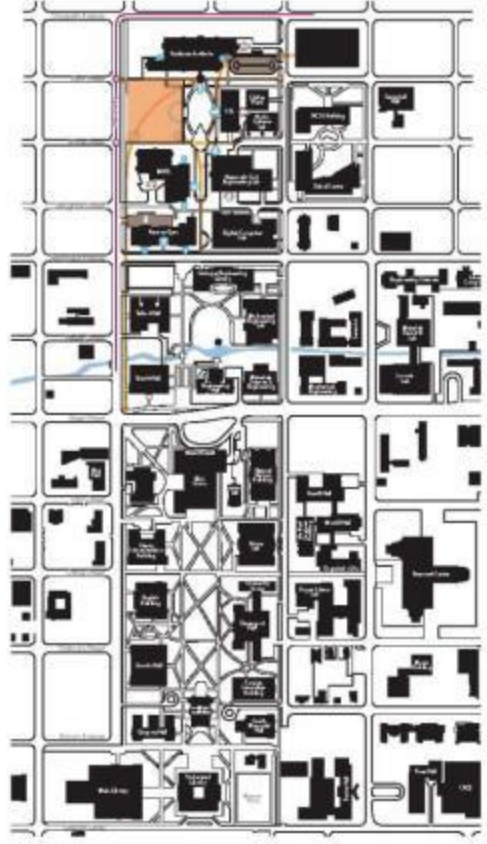
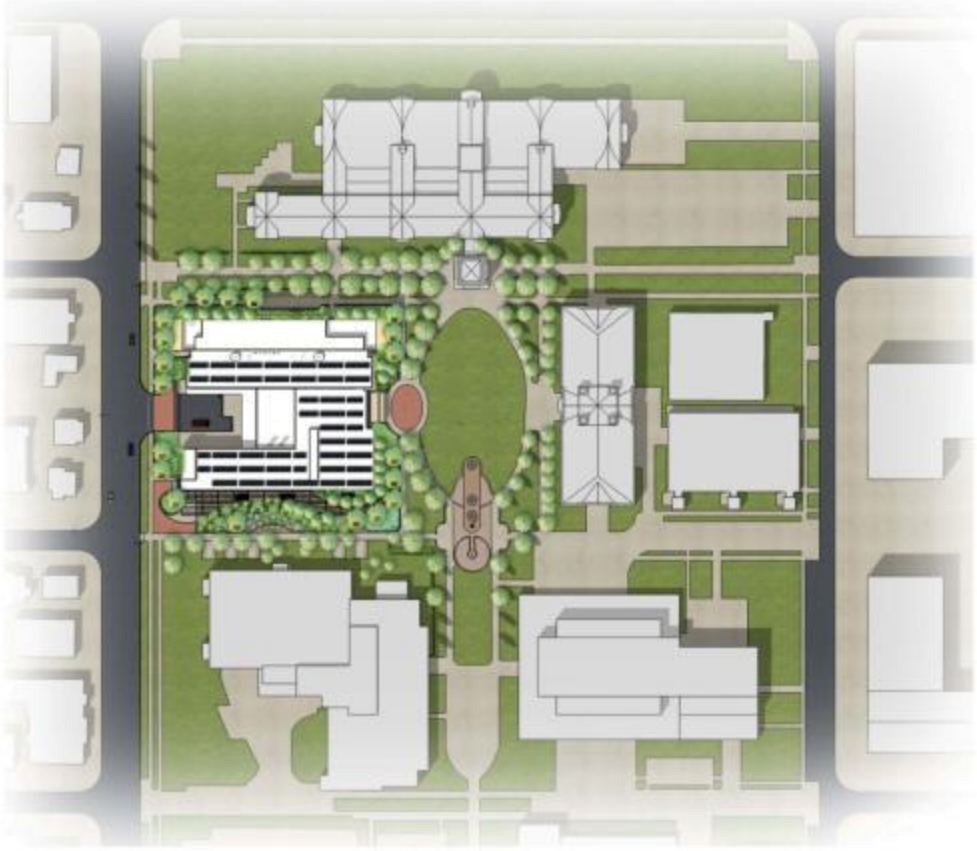


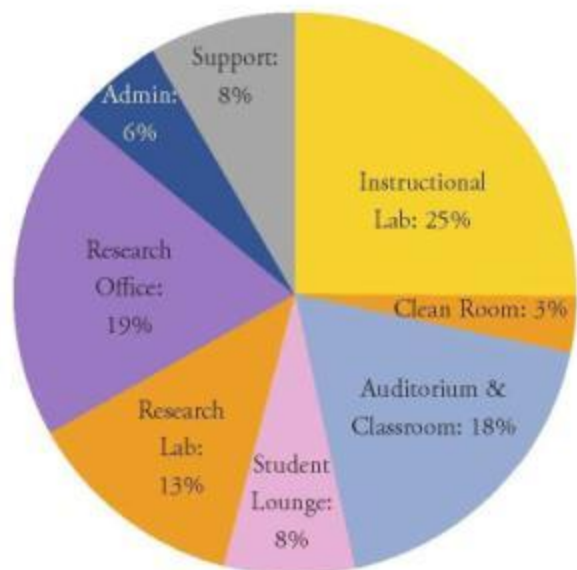
University of Illinois at Urbana-Champaign, Electrical and Computer Engineering Building

Design Presentation, Prepared for: The Board of Trustees of the University of Illinois, March 2010



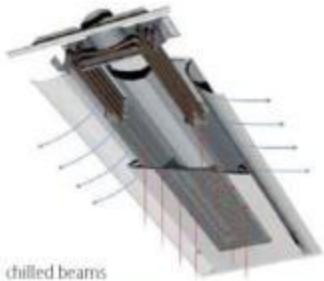


ECE Illinois ...a beacon



<i>Program Areas:</i>	<i>NSF</i>	<i>% of Program</i>
Instructional Lab:	30,374	25%
Clean Room:	3,895	3%
Auditoriums & Classrooms:	22,029	18%
Student Lounge & Study Area:	9,281	8%
Research Lab:	15,348	13%
Office:	29,983	25%
Other:	10,150	8%





chilled beams



LED lighting



photovoltaic panels

- 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.

Learning space.

A sense of community.

Inspiration.

Room to grow and innovate.

Special event space.

Student organizations out in front.

A home base for ECE.