

## Be an Energy Genius



A partnership between ASHRAE and APPA: Leadership in Education is bringing ASHRAE's Building Energy Quotient to universities through a senior level course on building energy auditing and analysis: *Benchmarking and Assessment of Building Energy Performance*. The course uses the Building EQ In Operation rating as a framework to engage students, professors, facilities managers, and ASHRAE professionals as a collaborative team in a project based learning activity that will benefit all parties involved

Two different evaluations can be used independently to compare a candidate building to other similar buildings or together for an assessment of potential energy use compared to actual operation, identifying the gap between design and occupancy:

### **In Operation** compares actual building energy use

- Based on metered energy use of a building
- Assists in preparation of on-site ASHRAE Level 1 Energy Audit
- Confirms that indoor environmental quality is not compromised for energy savings
- Standard and consistent process allows for tracking of improvement over time

### **As Designed** compares a building's potential energy use

- Based on a building's physical characteristics and systems
- Simulated standardized energy use model
- Independent of operational and occupancy variables

### **Participation Benefits:**

- ❖ Students receive hands-on, real world experience assessing building energy performance
- ❖ Students gain insight on sustainability in the built environment at the micro level leading to an understanding of infrastructure and environmental impacts at the macro level.
- ❖ Campus buildings receive a Building EQ performance score (efficiency) to benchmark performance.
- ❖ Actionable recommendations detail how to improve campus buildings' performance
- ❖ Assessment of lab buildings distinguishes between different laboratory types
- ❖ Additional information on a building's Indoor Environmental Quality is also provided

### **University Course Availability:**

- ❖ Course information available now on ASHRAE website to assess applicability to your curriculum

For additional information on how Building EQ benefits your **university**, please visit [ashrae.org/BuildingEQ](http://ashrae.org/BuildingEQ).

