



Research Funding Opportunity

Program Title	Student (Team) Design Project Competition
Solicitation/RFP Code	
Funding Organization(s)	American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
Funding Amount(s)	1 st - \$1500, and expenses to award ceremony, 2 nd & 3 rd expenses to ceremony
Application Deadline(s)	May 8, 2009
Program Summary	
<p>The ASHRAE 2009 Student Design Competition features a 15,650 ft² office building. The office building includes first-floor parking, second-floor retail and office space, and third-floor office space. The teams may compete in one of the three categories:</p> <ol style="list-style-type: none">1. HVAC Systems Design - For students at schools with only one to three HVAC courses. Focuses on "right-sizing" HVAC equipment and systems to provide an energy efficient design for the facility. Students are required to determine heating and cooling loads, and design an HVAC system for the office tower while complying with ASHRAE Standards 55-2004, 62.1-2004, and 90.1- 2004.2. HVAC Systems Selection - <u>For all undergraduate students</u>. Encourages students with a solid HVAC base to use life-cycle cost process to select the building HVAC system(s) as well as incorporate the sustainability process promoted by ASHRAE by integrating the U.S. Green Building Council's LEED™ Rating System (or equivalent in the home country of international students.)3. Integrated Sustainable Building Design/Architectural Design HVAC, and other Building Service Systems - <u>For a team of architectural and engineering students</u>. Graduate students may also compete in this category only. Teams are asked to design their own building for the program described in the effort to approach a Zero energy building. Students will be asked to document select LEED credits (or equivalent energy rating system in their home country) to measure how their design meets the sustainability goals. An emphasis in ISBD or whole building design is on architectural, construction, mechanical, electrical, and other technical systems integrated approach throughout the design process. <p>ASHRAE recommends that the project groups consist of at least two members from an undergraduate engineering or architecture curriculum for the HVAC System Design and HVAC System Selection categories, and at least three members (architecture or construction, mechanical & electrical) from undergraduate and/or graduate for the ISBD category.</p> <p>Team members can attend different colleges. All team members must be enrolled in an undergraduate program during the semester/term they contribute to the design in the HVAC System Design and HVAC System Selection categories. Graduate students may only compete in the Integrated Sustainable Building Design – ISBD.</p> <p>Full announcement: http://www.ashrae.org/students/page/1420</p> <p>Online team registration: http://www.ashrae.org/students/page/1509</p>	