



# ASHRAE FOUNDATION

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) has a century-old record of advancing the arts and sciences of HVAC&R to serve the needs of its members and the population at large.

In 1994 ASHRAE created the ASHRAE Foundation, an endowed trust that supports professional development and research programs and provides engineering students with much needed scholarship assistance. ASHRAE Foundation ensures that ASHRAE will continue to have sufficient resources to sustain and expand the society's important work for years to come.

Creation of the endowment was in response to a vital need for increased funding for ASHRAE programs and projects. Since its inception, the foundation has flourished and supported important projects such as continuing education with ASHRAE Learning Institute (ALI), awarding nearly \$100,000 in student scholarships annually and supporting research initiatives that might not otherwise have been funded. The foundation now recognizes the need and has accepted the challenge to provide the financial support necessary to offer tailored educational programming ensuring that HVAC&R professionals are prepared today for tomorrow's challenges.

ASHRAE Foundation is administered by a board of 18 trustees, many of whom are former presidents of ASHRAE. However, these dedicated ASHRAE members can't do this alone. That's where you come in! There are many opportunities for ASHRAE members to support the foundation in ways from one-time cash gifts to complicated estate planning options. In partnering with ASHRAE Foundation you can make a difference while *Supporting Tomorrow, Today.*

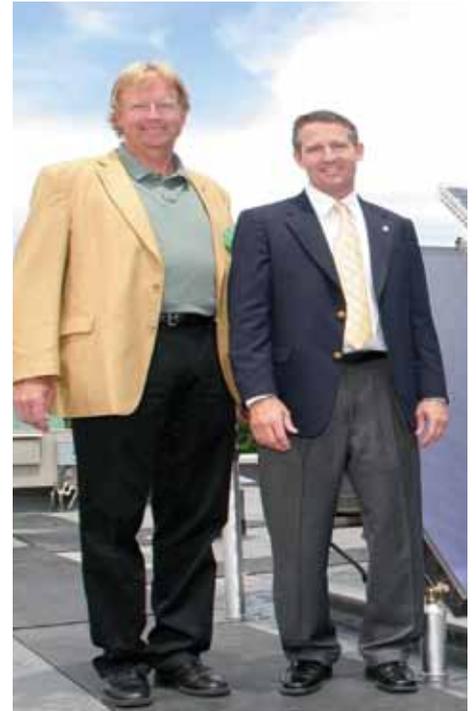
## OUR MISSION:

To provide a permanent financial resource to support the society and its mission to benefit the public.



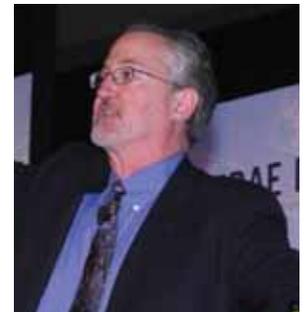
## WAYS YOUR FOUNDATION HELPS

- Continued training and educational programs
- Career development and mentoring opportunities for students
- Scholarship support
- Continued development of HVAC&R standards and guidelines
- Support for long-term research projects not funded by annual campaign



## ASHRAE'S MISSION

To advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world.



## ASHRAE'S VISION

ASHRAE will be the global leader, the foremost source of technical and educational information, and the primary provider of opportunity for professional growth in the arts and sciences of heating, ventilating, air conditioning and refrigerating.



## WAYS TO GIVE

Whether you are just starting out with ASHRAE or a lifetime member, you can make a difference with ASHRAE Foundation. Your gifts can help build a future for ASHRAE.

## GIFTS OF CASH AND STOCK

- Outright gift to ASHRAE Foundation
- Immediate tax deduction for full amount of gift or current valuation of stock at the time of sale.

## ESTATE AND PLANNED GIFTS

- Create a legacy
- Can generate and provide an income to the donor for the remainder of a lifetime
- Can assist in avoiding capital gains taxes when passing assets to family

### A VARIETY OF OPTIONS...

- Bequests
- Life Insurance
- Retirement Plans

### GIFTS THAT PAY YOU INCOME

- Charitable Gift Annuities
- Charitable Remainder Trusts

## GIFTS YOU MAKE TODAY

- Memorials and Endowments
  - Endow your annual research promotion gift
  - Endow a scholarship
  - Outright gift to create an endowment in support of an area of particular interest
- Provide naming opportunities

For more information or assistance with your estate plans, call Margaret A. Smith, Foundation Manager, at (678) 539-1201 or [msmith@ashrae.org](mailto:msmith@ashrae.org).



GIFTS

“Establishing a charitable gift annuity was an easy way for me to make a gift to ASHRAE. It provides me with a nice income, and I was able to use the income tax charitable deduction while still benefitting the foundation. For those ASHRAE members who have surplus, a gift annuity is a good place to invest. It’s the type of investment that truly benefits everyone involved.”

Fred Kohloss  
Presidential Member and Honorary Trustee  
ASHRAE Member since 1949



## ASHRAE LEARNING INSTITUTE (ALI)

ASHRAE's 100 years of experience investing in research on behalf of the HVAC&R industry is unparalleled. This long-term investment has led to the advancement of industry products and standards and has paved the way for improved systems, processes and practices.

ASHRAE members continue to face an expanded need for quality HVAC&R-related education. To meet this challenge, ASHRAE focuses on equipping members with superior knowledge and understanding of the industry's cutting-edge trends, technologies and developments.



In 1999 ASHRAE created the ASHRAE Learning Institute (ALI) in response to the growing need for advanced industry-specific education and training programs. As envisioned, ALI is a primary source of formal HVAC&R learning opportunities, including energy and labor efficiency controls, and management and operations of building systems, serving ASHRAE members and related industries throughout the world.

ALI is the umbrella for ASHRAE's educational programs. ALI utilizes advanced information technologies, traditional instructor-led and self-directed studies to reshape the process and ensure ASHRAE members and recent graduates keep pace with the professional demands of the 21st century.

As the premier educational and training institute within the profession, ALI has a competitive edge in the following three key areas:

- **DEPTH AND BREADTH OF OFFERINGS** ALI offers more than 100 courses in multiple formats and delivery methods including: Professional Development Seminars (PDSs), Short Courses, Self-Directed Learning (SDL), online seminars and eLearning. Companies, ASHRAE chapters and institutions of higher learning may be licensed to offer these programs.
- **AUTHORITATIVE CREDIBILITY OF TECHNICAL SOURCES** To ensure high-quality, accurate technical content, ASHRAE courses are reviewed by experts in the specific field of study.
- **GLOBAL REACH OF CHAPTERS** ASHRAE promotes education through its chapters and chapter meetings throughout the world.

Two motivating factors demonstrate the need and demand for expanded ALI educational programming. First, ASHRAE members and non-members alike must meet continuing professional competency requirements such as the Professional Engineer (PE) license. Second, engineers have an immediate and critical need for information and specific data in the field in order to effectively complete current projects. The need is even greater for engineers within smaller consulting firms, companies with limited resources and international members who have fewer training opportunities.

A key component of the foundation's plan is to provide ALI with resources for developing and utilizing advanced

information technologies, along with traditional instructor-based and self-directed studies. As a result, this reshapes the process by which ASHRAE members and recent college/university graduates keep pace with the engineering demands of the 21st century. Areas that have been identified include:

- **EXPANDING THE REACH OF PROFESSIONAL DEVELOPMENT SEMINARS (PDSs) AND SHORT COURSES** For more than 20 years, ASHRAE has offered PDSs and short courses at society meetings and to ASHRAE chapters for local presentation. Through ALI, ASHRAE continues to expand these offerings on the regional level by presenting courses in conjunction with industry conferences around the globe.
- **DEVELOPING AND IMPLEMENTING ONLINE AND INTERACTIVE LEARNING TOOLS** ALI has developed a large library of self-directed, interactive eLearning courses, providing a convenient, inexpensive way for ASHRAE members to participate in training opportunities anytime and anywhere. ASHRAE's educational outreach initiative also involves stewardship of the next generation of HVAC&R professionals who will see advances in technology that one can only dream of today. The foundation will complement ASHRAE's work by providing increased funding for the following programs:

## STUDENT INITIATIVES

- **STUDENT DESIGN PROJECT COMPETITION** An annual design competition recognizes outstanding student design projects and encourages undergraduate students to become involved in the industry. Design categories include: Integrated Sustainable Building Design, HVAC&R System Selection and HVAC&R System Design.
- **STUDENT MENTOR PROGRAM** Although most mentoring is done on a local level, ASHRAE collaborates with other organizations during National Engineers' Week each February and the Department of Energy's Solar Decathlon every other October to increase the dissemination of information on the most recent advances and opportunities in the profession. Implementation involves local meetings, technical tours, speaking engagements and career fairs providing students with direct interaction with senior-level engineers.
- **UNDERGRADUATE SENIOR PROJECTS GRANT PROGRAM** Grants are provided to engineering, technical and architectural schools worldwide to increase student knowledge and awareness of the HVAC&R industry. Grants are used to fund equipment and supplies for engineering or architectural senior projects and technical school projects. Grants may cover projects lasting from one term up to one full academic year.
- **STUDENT BREAKFAST/PROGRAM** Every year at the ASHRAE Winter Meeting, students learn more about ASHRAE, its members and fellow students. The society president attends, a special guest speaker enlightens on professional development or industry topics, a career panel provides advice, ASHRAE grant and design competition-winning teams display projects and host sessions related to their school projects. Students may participate in a student-only technical tour of a local facility.
- **ASHRAE K-12 OUTREACH** With the declining number of people entering the engineering profession, the next generation (K-12) needs our leadership now more than ever. ASHRAE is dedicated to ensuring quality STEM programs for teachers and students around the world by providing classroom activities, literature, videos, handouts and other resources via the ASHRAE website. Supporting member outreach and involvement in K-12 classrooms can secure the future of the HVAC&R industry.

## CERTIFICATION

Development and administration of certification programs for HVAC&R professional development is essential to a thriving industry. In 2007 ASHRAE launched its first certification program under the guidance of the Certification Committee, which started as an ad hoc group and is now a standing committee. ASHRAE's certification programs are designed to recognize industry professionals who have, by passing an examination, demonstrated mastery of a body of knowledge deemed by subject matter experts to reflect best practices in a specific field. Each program has its own set of eligibility criteria that combine academic and industry experience to ensure a baseline level of knowledge. In addition, all programs have renewal requirements to ensure that ASHRAE certification holders stay up-to-date in the field(s) in which they are certified.

## HIGH SCHOOL SENIOR SCHOLARSHIPS

### \$3,000

Four one-year \$3,000 scholarships available annually to college freshmen enrolled full-time in an undergraduate pre-engineering, engineering or engineering technology program leading to a bachelor degree in a course of study that traditionally has been a preparatory curriculum for the HVAC&R profession. Applicants must be high school seniors who have been accepted into a pre-engineering, engineering, or engineering technology program at a post-secondary educational institution.

## UNDERGRADUATE ENGINEERING SCHOLARSHIPS

Available annually to full-time undergraduate engineering or pre-engineering students enrolled in a post-secondary educational institution.

### \$3,000

**ASHRAE Henry Adams Scholarship** Established by Henry Adams Inc., a consulting firm based in Baltimore, Maryland, in memory of its founder, a charter member and the sixth president of ASHRAE's predecessor society ASHVE.

### \$5,000

**ASHRAE Lynn G. Bellenger Scholarship** Established in memory of the society's first female president, who served from 2010-2011.

**ASHRAE General Scholarships (2)**

**ASHRAE Legacy Scholarship**

**ASHRAE Alwin B. Newton Scholarship** Named for an industry pioneer who was granted 219 patents.

**ASHRAE Duane Hanson Scholarship** Named for the president of Gayner Engineers, a consulting mechanical/electrical engineering firm in San Francisco, California.

**ASHRAE Frank M. Coda Scholarship** Established in memory of the society's executive vice president, who served from 1981-2004.

### \$10,000

**ASHRAE Reuben Trane Scholarships (2)** Two-year scholarship awarded in two disbursements of \$5,000 each. Scholarship was established in memory of Trane's founder, an engineer, inventor and business executive, whose manufacturing enterprise is one of the world's largest in the HVAC&R industry.

**ASHRAE Willis H. Carrier Scholarships (2)** One-year scholarship established by the Carrier Corporation in memory of its founder, a pioneer in the HVAC&R industry widely known for his significant contributions in establishing air-conditioning as an industry. Carrier is credited with installing the world's first scientifically designed air-conditioning system in 1902.

## ENGINEERING TECHNOLOGY SCHOLARSHIPS

Available annually to qualified undergraduate engineering technology students pursuing an associate's or bachelor's degree in a course of study related to HVAC&R.

**\$5,000**

### **ASHRAE Engineering Technology Scholarship (3)**

**ASHRAE Lynn G. Bellenger Engineering Technology Scholarship** Established in memory of the society's first female president, who served from 2010-2011.

## REGIONAL / CHAPTER SCHOLARSHIPS

**\$3,000**

**ASHRAE Region III Boggarm Setty Scholarship** Available annually to a qualified undergraduate engineering student enrolled at a school in ASHRAE Region III, which covers: Delaware, Maryland, Pennsylvania, Virginia and Washington DC.

**ASHRAE Region VIII Scholarship** Available annually to a full-time undergraduate engineering or pre-engineering student enrolled in a post-secondary educational institution within the geographic boundaries of ASHRAE's Region VIII (Arkansas, Louisiana\*, Texas\*, Oklahoma and Mexico).

**ASHRAE Minnesota Chapter Peter Potvin Scholarship** Available annually to a full-time undergraduate mechanical or architectural engineering student enrolled in an ABET accredited program at a school within the geographic boundaries of the Minnesota chapter and/or who has graduated from a high school within the geographic boundaries of the Minnesota Chapter.

**ASHRAE New Jersey Chapter Scholarship** Available annually to a full-time undergraduate mechanical or architectural engineering student enrolled in an ABET accredited program at a school within the geographic boundaries of the New Jersey chapter of ASHRAE and/or who has graduated from a high school within the geographic boundaries of New Jersey chapter of ASHRAE.

**\$5,000**

**ASHRAE Region IV Benny Bootle Scholarship** Available annually to a full-time undergraduate engineering, pre-engineering or architecture student enrolled in a post-secondary educational institution within the geographic boundaries of ASHRAE's Region IV (North and South Carolina and Georgia).

\*Parts of these states are not within the geographic boundaries of Region VIII. Contact ASHRAE headquarters for eligible schools in these areas.

“ASHRAE Foundation was created to help secure the long-term future of ASHRAE. I believe strongly that the Foundation offers a unique opportunity for members to plant the seed for future generations by endowing support for scholarships.”

A. Damon Gowan  
Presidential Member  
Foundation Treasurer  
ASHRAE Member since 1966



## UNIVERSITY-SPECIFIC SCHOLARSHIPS

### \$3,000

**ASHRAE Donald E. Nichols Scholarship** Available annually to a full-time undergraduate engineering or pre-engineering student enrolled in an ABET-accredited program at Tennessee Technological University. The scholarship was named for a former ASHRAE vice president and graduate of Tennessee Tech.

**ASHRAE J. Richard Mehalick Scholarship** Available annually to a full-time undergraduate mechanical engineering student enrolled at the University of Pittsburgh. The scholarship was named for a former ASHRAE member and graduate of the University of Pittsburgh who oversaw the development of air-conditioning equipment used in commercial, military, aerospace and transportation applications.

### \$5,000

**ASHRAE David C.J. Peters Scholarship** Available annually to a qualified undergraduate mechanical engineering student enrolled at one of the following schools.:

Pennsylvania State University  
North Carolina State University  
Virginia Tech  
California State University\*  
Cal Poly Luis Obispo

University of Nevada  
Clemson University  
University of Nebraska\*  
Oklahoma State University  
University of Texas\*

\*Some campus locations may not qualify.

For more information on endowing a scholarship, contact Margaret A. Smith, Foundation Manager at (678) 539-1201 or [msmith@ashrae.org](mailto:msmith@ashrae.org) or for complete eligibility requirements visit [www.ashrae.org/scholarships](http://www.ashrae.org/scholarships)

