

2022
HAPPY
NEW YEAR

THERMOGRAM

The New Jersey Chapter of ASHRAE Newsletter

JANUARY 2022

www.njashrae.com
reply@njashrae.com
ASHRAE Society: 1-800-527-4723



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Kal Osman
Samsung HVAC Regional Sales Manager

Topic:

Variable Refrigerant Flow Systems

Date:

Tuesday, January 11th @ 5pm

Location:

Delta Hotel – 515 US Highway 1 South,
Iselin, NJ

RSVP:

NJASHRAE@gmail.com

Prepay at njashrae.com when you RSVP.
Those that prepay will receive
two drink tickets at the meeting!

Speaker Bio:

Kal Osman is the Samsung HVAC Regional Sales Manager for the NY, NJ & CT market. He has been working in the HVAC industry for over 25 years. Primarily on the manufacturing side. He started in application support and spent a couple of decades in product management, sales training, and support at different capacities. Kal's knowledge extends to HVAC, hydronic, controls, valves and boilers. His passion revolves around providing the best solution to every application.

Abstract:

Join Samsung HVAC as we discuss the features, advantages, and benefits of considering Variable Refrigerant Flow (VRF) systems for today's climate solutions. VRF systems offer standard, high heating, ventilation, and other options make it a great option for engineers. At the end of the course, learners will be able to:

- Describe how VRF system are configured and operate
- List the key features, advantages, and benefits of VRF system
- Differentiate between air-cooled and water-cooled systems
- Apply important design considerations when configuring VRF Systems based on client needs
- Recognize suitable applications for VRF solutions

Cost:

Members	\$50
Non-Members	\$60
YEA Students	\$35
Students	\$5
New Members	Free!

Last Month's Speakers:



Stephen DeGrazio, PE
Director of Engineering

Stephen DeGrazio is the Director of Engineering for Delren HVAC primarily focused on collaborating with design engineers on varying project types. Stephen and his team work to be a knowledgeable resource to the design industry.

Stephen has 15-years of experience on the design side which started as a project engineer and continued to grow into the roll of Life Care Sector Leader. Stephen was involved in all aspects of the project's management, design, coordination and feasibility from planning through construction. Projects generally included brand new out-of-ground corporate headquarters and senior living communities and major office building renovations.

Stephen has a B.S.M.E. from Villanova University and is a licensed Professional Engineer in PA. He enjoys watching and coaching football, golf, and spending time with his family.

Bryan Overbeck is a sales engineer for Delren HVAC primarily focused on owner development for products for critical environments including operating rooms, isolation rooms, pharmacies and laboratories. His 29 year engineering career includes lengthy stints at Sargent & Lundy and Baxter Healthcare.



Brian Overbeck, PE
Senior Sales Engineer

At Sargent & Lundy Bryan managed mid to large design engineering projects for the Exelon fleet of nuclear power plants. In addition to managing Fukushima design projects, he also supported numerous refueling outages at Peach Bottom Atomic Power Stations (PBAPS) and Limerick Generating Stations. Bryan also managed the design and installation of multiple engineering projects for PBAPS Extended Power Uprate (EPU).

At Baxter Healthcare Bryan was a facility support supervisor for numerous facility upgrades including new Compounding Pharmacy, Microbiology Lab, Chemistry Lab and upgraded filling suites. Bryan has B.S.M.E. from Villanova University and is a licensed Professional Engineer in NJ and PA. He enjoys golf and running, recently qualifying for the Boston Marathon.

Last Month's Topic:

Airflow Control

The Airflow Control Device course begins with instruction on the fundamentals of precision airflow control devices, namely an introduction to VAV boxes, High Accuracy Terminals and Venturi Valve technologies. Focusing on the recommended applications and different versions of each valve type will ensure a thorough understanding of the full scope of each technology. The presentation centers on the difference between closed loop and open loop controls, and how to select between the two when trying to achieve optimal airflow control or achieve your goals inside a space. The course transitions from fundamentals to describe speed of response and compare how the airflow control devices stack up against one another. The course concludes with a brief overview of required and recommended maintenance for each valve type.

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NJ ASHRAE Contact Info

www.njashrae.com
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ASHRAE Society: 1-800-527-4723



President's Message



Hello NJ ASHRAE Members, I'd like to wish you a Happy New Year! Hopefully you all enjoyed some needed time off to recharge with your families! A big thank you to Steve DeGrazio for presenting on Airflow Control Devices at our December dinner meeting which was held in person for the first time in nearly two years! I really enjoyed seeing everyone and catching up after what felt like an eternity away from our usual cadence. Steve did an excellent job presenting on the different applications of the devices with an engaged audience that had a lot of energy. I guess that's what being stuck at home will do!

January's meeting is typically a joint meeting with MCA and ASPE. Due to the large number of attendees that usually show up, the joint meeting has been cancelled for this year and will be moved to January 2023. The Board of Governors have decided that we would like to host an ASHRAE dinner meeting on Tuesday, January 11th at the Delta Hotel in Iselin in lieu of the joint meeting. The topic will be on **VRF Applications** presented by **Kal Osman** from Samsung HVAC. Cocktail hour will begin at 5pm and the dinner meeting/presentation will begin at 6pm. Note that we ask all unvaccinated members to please wear a mask to the meeting.

Lastly, to avoid a line up at check-in and get a more accurate headcount, we are asking all members to please prepay at njashrae.com when you RSVP. Those that prepay will receive **two drink tickets** at the meeting! We look forward to seeing you on January 11th!



Shaping Tomorrow's
Built Environment Today

Website

Happy Holidays!! Wishing everyone a safe and happy New Year - check the website for all updates on our upcoming meetings.

Dorrie A. Mercurio P.E.



Historian

As part of documenting our chapter history, I am looking for a heating, refrigeration, or air-conditioning plant of historic interest to our professions. If anybody has a good candidate, please let me know! I can best be reached at my email address, greg@millerchitty.com.

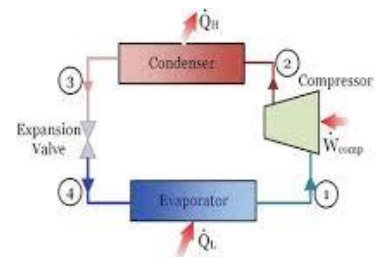
Greg Miller



Refrigeration

The refrigeration committee is finalizing the details with Jersey spirits distillery to schedule the refrigeration tour in March/April. Stay tuned for more updates.

Brian W. Glynn, P.E., LEED A.P.



Young Engineers in ASHRAE

Happy New Year! We are still working on the details for YEA Top Golf Event and Hockey Game! I will have details out as soon as they are confirmed.

Ryan Diaz, P.E.



Student Activities

NJ-ASHRAE continues our efforts to support and expand the Stevens and NJIT student branches as students return to campus this Fall for the 2021-2022 school year. The April 2022 ASHRAE NJ meeting will center around Student Activities with the goal of having an on-campus meeting and tour. A lot depends on the pandemic and school policy, but we are optimistic an on-campus event will happen. NJ-ASHRAE is also committed to encouraging and supporting K-12 STEM activities and to inspire young people to get involved in STEM related careers. We encourage our Chapter Members to participate in Engineers Week scheduled for February 20-26, 2022, and Take a Child to Work Day, which falls on April 28, 2022 of next year. If you are interested in participating in Student Activities or know of opportunities or existing programs which NJ-ASHRAE could participate in, please contact Jim Rossetti, Ryan Diaz or any of the NJ chapter officers.

Jim Rossetti



President Biden Issues Executive Order to Support Net-Zero Emissions by 2050

Because the U.S. Federal Government is the largest landowner, energy consumer, and employer in the U.S., on December 8, President Biden issued an Executive Order entitled, “Executive Order on Catalyzing Clean to direct Federal agencies to reduce greenhouse gas emissions.” The EO should catalyze private sector investment in the electricity, vehicles, and buildings sectors. With respect to buildings, the Executive Order states that it will use its scale and procurement power to achieve a net-zero emissions building portfolio by 2045, including a 50 percent emissions reduction by 2032. To view the full Executive Order, please visit [here](#).

DOE Issues \$54 Million Funding Announcement for Community-Focused Clean Energy

The U.S. Department of Energy announced a funding opportunity for small businesses to research, develop, and create commercialization plans for new technologies that equitably advance the nation’s transition to a clean energy economy. Initial grant awards of \$250,000 will be made, and subsequent awards of up to \$1.6 million may follow. DOE specifies the following types of projects that are eligible for these grants:

- Diversify sustainable sources of minerals and materials needed to manufacture clean energy technologies
- Enhance thermal energy storage technologies for buildings
- Improve recyclability and reuse of retired solar panels and components
- Increase hydropower and marine energy generation
- Convert biomass and other waste into cost-effective, carbon-free fuels
- Develop technologies for affordable, efficient hydrogen production, delivery, and storage.

To apply, a letter of intent is due by 5:00 p.m. ET on January 3, 2022, with full applications due on February 22, 2022.

To learn more about this funding opportunity, please visit [here](#).

DOE Publishes Final Rule Pertaining to the “Process Rule”

The U.S. Department of Energy (DOE) has published a final rule pertaining to Procedures, Interpretations, and Policies for Consideration in New or Revised Energy Conservation Standards and Test Procedures for Consumer Products and Commercial/Industrial Equipment (the “Process Rule”). DOE explains that this final rule would “remove unnecessary obstacles to DOE’s ability to meet its statutory obligations under the Energy Policy and Conservation Act (EPCA).” This final rule addresses proposed revisions from the April 2021 NOPR; DOE will address the additional revisions proposed in the July 2021 NOPR in a separate final rule. ASHRAE previously submitted comments to the July 2021 NOPR, which can be found [here](#), and more information about the Process Rule can be found [here](#).

DOE Issues Multiple Rulemaking Notices and Other Announcements Concerning its Appliance and Equipment Standards Program

DOE's Building Technologies Office implements minimum energy conservation standards for more than 60 categories of appliances and equipment. Over the past month, DOE has issued multiple notices of draft rulemakings for standards as well as test procedures, announcements on open meetings, final standards, and supplemental notices. These include notices on VRF multi-split systems, ceiling fans, small commercial package air conditioning, heat pumps, external power supplies, and battery chargers. A complete list organized by the comment period close date can be found [here](#).

DOE Announces Decarbonization Resource Hub

The U.S. Department of Energy has created a website providing information and other resources on decarbonization and the steps to implementing a successful decarbonization strategy, from prioritizing energy efficiency to finding financing. As buildings and manufacturing plants generate about two-thirds of U.S. greenhouse gas emissions, carbon reduction goals are vital to meeting national and global climate goals. You can visit the resource hub [here](#).

DOE Announces Climate Leadership Challenge

The U.S. Department of Energy announced its "Better Climate Challenge," which is a new leadership challenge for companies, states, municipalities, multifamily housing owners, and other organizations. DOE will partner with organizations that have portfolio-wide greenhouse gas emissions reductions goals of 50% or more by 2030. Partners will share information about how they reduced their Scope 1 and 2 emissions to help others address similar goals. Partners will receive support from DOE through technical assistance, roadmaps, and convening peer-to-peer sharing of solutions. Already 40 organizations have signed onto the Better Climate Challenge. To learn more, visit [here](#).

Jeffrey N. Beeden, PE, CEM

Calendar of Meetings



**OCT 5,
2021**

Speaker: Spencer Morasch
Topics: NJ Energy Efficiency (Rebate) Program
Theme: Welcome Back!
Location: Virtual

**NOV 16,
2021**

Speaker: Stephan Kujak
Topic: Future of Refrigerants
Theme: Refrigeration Night!
Location: Delta Hotel, Iselin, NJ

**DEC 14,
2021**

Speaker: Stephen DeGrazio & Brian Overbeck
Topic: Antec Controls - Venturi Valves/Lab Controls
Theme: Past President's Night!
Location: Delta Hotel, Iselin, NJ

**JAN 11,
2022**

Speaker: Kal Osman
Topic: Variable Refrigerant Flow Systems
Location: Delta Hotel, Iselin, NJ

**FEB 1,
2022**

Speaker: Susan Lord
Topic: PIC Valves
Theme: History Night!
Location: Delta Hotel, Iselin, NJ

**MAR 1,
2022**

Speaker: R. Christopher Mathis
Topic: Why Buildings Matter and the Role of ASHRAE 90.1
Theme: Research Promotion Night!
Location: Delta Hotel, Iselin, NJ

**APR 5,
2022**

Speaker: Stevens Students
Topic: Research Projects
Theme: Back to Basics Night - Student & YEA Night!
Location: TBD

**MAY
2022**

Event: Golf Outing
Topic: To Benefit ASHRAE Research Promotion
Location: TBD

**JUN 13,
2022**

Speaker: Mick Schwedler
Topic: ASHRAE Presidential Address
Theme: Membership Night and Installation of New Officers
Location: Delta Hotel, Iselin, NJ

PAOE Point Summary

Chapter Members	Member Promotion	Student Activities	Research Promotion	History	Electronic Comm.	Chapter Operations	CTTC	Chapter Grassroots Government	YEA
-	Min=1000	Min=300	Min=800	Min=100	Min=250	Min=600	Min=450	Min=500	Min=300
-	Par=1600	Par=500	Par=1050	Par=300	Par=700	Par=1200	Par=1050	Par=650	Par=800
525	650	250	270	120	0	50	50	100	825

2020-2021 Presidential Award of Excellence (PAOE) Summary Total = 2,315



INTEC Gas Monitoring

Solutions for Parking Garages and Industrial Gases

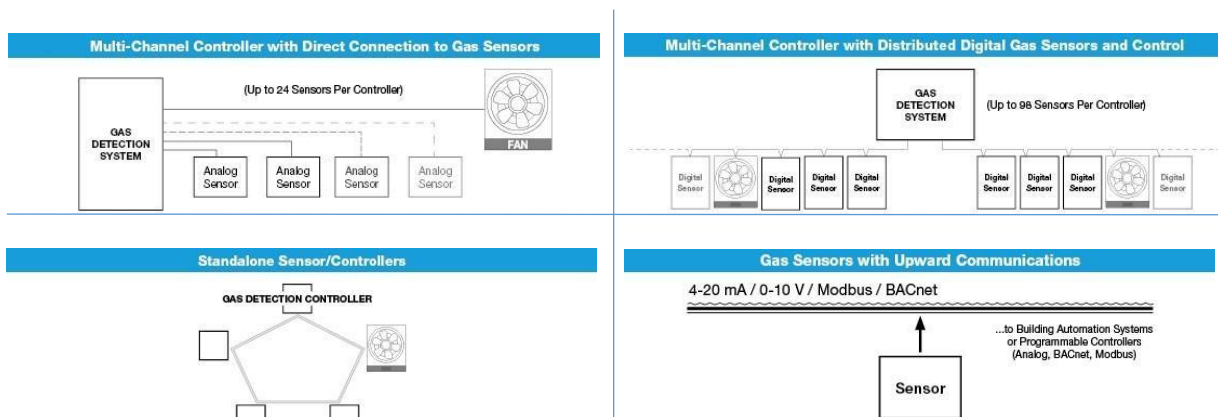
Samuel Tepp's representation of INTEC gas monitoring controls in New Jersey and New York offers solutions for parking garages (carbon monoxide and nitrogen dioxide) and facilities requiring monitoring these and many other gases such as methane (natural gas), refrigerants, hydrogen, oxygen, volatile organic compounds (VOC's), and ammonia.

INTEC's comprehensive offerings include standalone sensor/controllers, multi-channel controllers with direct sensor connections or distributed digital sensors/control, and sensors communicating directly with a BMS system. Systems are configurable to comply with code and client requirements while minimizing installed cost. Available as analog or digital BACnet-MS/TP and Modbus compatible, INTEC systems can be independent or integrate with building automation and security systems.

The type of gas monitoring system used in a specific application is primarily established by:

1. The required number of sensors and types of gases to be monitored
2. Gas monitoring system integration with other systems, if any
3. Installed cost

Systems are available with these configurations:



Samuel Tepp's robust engineering and product support, from design through the life of the system, includes:

- A. Review of drawings to suggest system types, sensor quantities, and sensor locations
- B. Equipment schedules and riser diagrams
- C. System startup and commissioning
- D. Optional recommissioning, calibration and service for the life of the system

Learn more about the latest requirements for gas monitoring by scheduling our PDH approved engineering seminar.

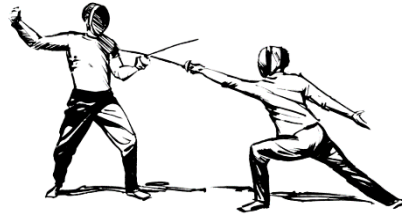


Contact:

Samuel Tepp
 Associates Metuchen,
 NJ 08840
 Office: 732-548-7398

Keith Miller

Membership Battle!!!



Support employee involvement in ASHRAE within your firm and win the *NJ ASHRAE - Top Supporter Award!!!*

The company in each employer size category with the most ASHRAE members belonging to the NJ Chapter by April 1, 2022 will receive the *NJ ASHRAE - Top Supporter Award!* Additionally, Firms in each category who add the most NEW members will receive the *Honorable Mention NJ ASHRAE*

Supporter Award .

Size Categories

Small Firms – 10 employees or less

Medium Firms – 11 – 40 employees

Large Firms – Over 40 employees

NJ ASHRAE - Top Supporter Award (most members)

- ASHRAE award plaque with company name presented at the May meeting.
- Recognition in the membership directory for 1 year and in our newsletter.
- Company name on NJ ASHRAE's website.

Honorable Mention

- ASHRAE award certificate with company name presented at the May meeting.
- Recognition in our year end newsletter.
- Company name on NJ ASHRAE's website.

Become a member today at www.ashrae.org and receive a free meal at your first monthly meeting!!!

(Must pay NJ membership dues to be eligible for the gift card or free meal)

Please contact our Membership Promotion Chair; Art Anderson at Arthur.anderson@carrier.com with any questions.

mcfa Job Opportunity

Mid-Level Energy Engineer

mcfa Job Opportunity

Description: MCFA is searching for leaders that are solution-driven, problem solvers, with experience in clean energy programs, to lead a team of junior engineers in support of a major utility provider in the New Jersey area; as an Energy Engineer. The role requires leading a team of junior energy engineers to review and organize energy efficiency/ clean energy improvement grant applications as well as perform field verifications to confirm the proper implementation of advanced funded projects.

Key Responsibilities:

- Provide technical assistance and guidance on energy efficient technologies and practices to customers, architects, engineers, contractors, and other trade allies participating in the utility-sponsored programs. Must be able to effectively communicate to both technical and non-technical audiences.
- Prepare and review technical specifications and engineering calculations for commercial and industrial energy efficiency measures and projects.
- Build and maintain relationships with key market actors in the energy efficiency industry including architects, engineers, contractors, and customers.
- Maintain strong ongoing communications with participating service providers and consultants in order to assess their needs and to receive feedback on their experience with the program.
- Conduct program trainings as needed for prospective participants.
- Assess whole building efficiency strategies, building plans and specifications, and make recommendations for energy efficiency upgrades or improvements.
- Prepare status reports to accurately describe activities within projects and to monitor progress towards program goals on contractor/consultant participation and the completion of eligible projects.
- Coordinate with or follow up on program Quality Assurance activities such as inspections and customer surveys, as appropriate.

Basic Qualifications:

- New Jersey State Resident-Required*
- Bachelor's degree (Engineering, Architecture, Energy, Building Science, Construction Management) or related trade experience
- 2-5 years of related experience with energy efficiency
- Experience with energy modeling platforms

Preferred Skills/Experience:

- 2-5 years of experience in one or more of the following areas:
- LEED or CEM credentials
- Working on successful energy efficiency programs, with specific expertise in energy modeling, energy efficiency technologies and products, and commercial energy issues in existing buildings
- Commercial construction industry in New Jersey or experience working with commercial construction at a utility, public agency, or non-governmental organization.
- Knowledge of ASHRAE 90.1
- Knowledge of integrated or whole building, building science principles
- Knowledge of commercial energy-efficient applications and
- Knowledge of sustainable building practices and technologies

Professional Skills:

- Excellent verbal and written communication skills.
- Team player with the ability to work in a fast-paced environment.
- Ability to apply detailed knowledge of organizational procedures to make independent decisions and serve as a credible resource for a senior management team.
- Ability to work with all levels of internal staff, as well as outside clients and vendors.
- Proficiency in MS Office Applications (Word, PowerPoint, Outlook, Excel).

What the opportunity offers you:

- **Grow your Expertise:** Be the senior leader responsible for grant application vetting and verification for a major utility provider.
- **Bring Value to Agency Infrastructure Champions:** Leverage mcfa's resources and your personal background and experiences to solve mission-critical infrastructure deficiencies and project execution challenges.
- **Build a Team:** Develop and harness the capabilities to grow the team in support of the energy improvement application process.
- **Build a Practice:** Grow into a robust Client/Practice industry leader optimizing and growing the application review and verification team and their process.

What we need from you:

- **Gets it, Wants it and Capacity to Execute (GWC):** Alignment with the MCFA Core Values of White Glove Customer Service, Intentional Creativity and Curiosity, Extreme Ownership, Teamwork, and Fun
- **Experience and Achievements:** Demonstrated technical knowledge/leadership in the electrical engineering field.
- **Industry Credentials:** Professional certifications, required
- **Technical Expertise:** Strong skills in problem solving, critical thinking and strategy to develop a course of actions, evaluation of alternatives, and developing technical reports.
- **Travel:** Ability to travel periodically to various applicant sites for field verification.
- **Work Authorization:** New Jersey Resident, and Authorized to work in the United States.

About us:

mcfa is a CVE verified Service-Disabled Veteran-Owned small business specializing in strategy, planning, program, and construction management services entrepreneurial enterprise. We employ energetic and passionate professionals and technicians who provide leadership and support of requirements for military missions, installations, and local infrastructure agencies across the U.S. Our team thrives in demanding, fast-paced environments. We pride ourselves on bringing innovation and excellence to the missions and programs we serve. Since 2003, our success has been driven by our culture. Our culture is driven by our Core Values. Our Core Values drive and motivate our team. If you think you would thrive in our firm and make a positive impact and contribution to the clients we serve, we want you to be part of our growing team! We want to hear from you. Please check out this and other postings at www.mcfaglobal.com. **Write us at careers@mcfaglobal.com to learn more about the process we use to engage our future A-Players and how you can make your pitch to be part of our entrepreneurial team!**

mcfa

mcfa is an Equal Employment Opportunity Employer. **mcfa** does not discriminate against any applicant or employee with regard to hiring, tenure of employment, promotion, transfer, selection for training, or any other terms or conditions of employment because of race, color, religion, sex, age, sexual orientation, disability, gender identity or national origin, status as a Vietnam-era or special disabled veteran in accordance with applicable federal law, or on any ground protected by state or local law in each area in which **mcfa** maintains facilities.

mcfa Job Opportunity

Senior-Level Energy Engineer

mcfa Job Opportunity

Description: MCFA is searching for leaders that are solution-driven, problem solvers, with experience in clean energy programs, to lead a team of junior engineers in support of a major utility provider in the New Jersey area; as a Senior Energy Engineer. The role requires leading a team of junior energy engineers to review and organize energy efficiency/ clean energy improvement grant applications as well as perform field verifications to confirm the proper implementation of advanced funded projects.

Key Responsibilities:

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- 5+ years of related experience with energy efficiency
- Experience with energy modeling platforms

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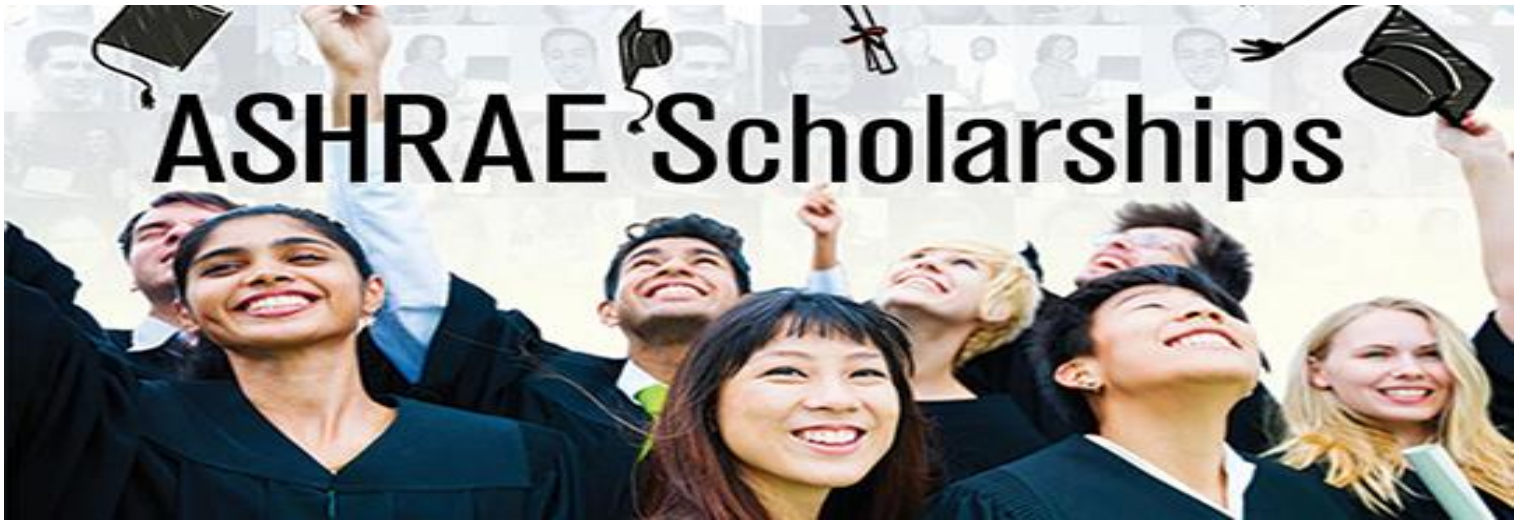
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ASHRAE Scholarship Program

46 Society scholarships available for 2022-2023 - Apply Today!

Through its scholarships, ASHRAE seeks to motivate students and prospective students worldwide to pursue an engineering or technology career in the HVAC&R field, part of the science, technology, engineering and mathematics (STEM) industry. The Society's Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R. ASHRAE has made available a total of 46 scholarships for the 2022-23 academic year: for high school seniors entering college through senior undergraduate engineering students and engineering technology students. ASHRAE is seeking your assistance in making student members aware of this financial assistance. Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. The following scholarship opportunities are available the 2022-23 academic year with a December 1st, 2021 Application Deadline:

- Undergraduate Engineering Scholarships – \$3,000 - \$10,000. Now accepting applications!
- University-Specific Scholarships – \$3,000 - \$5000. Now accepting applications!
- ASHRAE Society Chapter Scholarships – \$3,000 each. Now accepting applications!
- Regional Scholarships – \$3,000 - \$5000. Now accepting applications!
- Engineering Technology Scholarships – \$5,000 - \$10,000. Now accepting applications!

APPLY

Each year the ASHRAE Foundation awards scholarships of up to \$10,000 each to qualified students.

DONATE

Help support ASHRAE's student scholarship programs.

To learn more or apply, visit:
www.ashrae.org/scholarships

Advertise with NJ ASHRAE



Advertising Rates

Newsletter Ad Includes:

- COST: \$100 for ¼ a page, \$150 for ½ a page, and \$300 for full page for the full year

Website Ad Includes:

- Business Card ad on website for 1 year (starts the month the payment and business cards are received)
- Link to your website
- COST: \$300 for ¼ a page

Newsletter and Website Includes:

- Business card ad in newsletters through June 2019
- Business card ad on website for 1 year
- COST: \$350 for ¼ a page, \$400 for ½ a page, and \$550 for the year

Resource Goals

Resource promotion is extremely important to ASHRAE. Without donations, ASHRAE would not be able to fund all the valuable resource to our industry. Online donations are extremely simple to do and the form can be accessed from the ASHRAE main web page. Just click on "MAKE A GIFT" in the upper right-hand corner. Go to ASHRAE RP Campaign and click on "DONATE NOW." You should now have the online contribution form open. Simply fill out the form with your payment information. Thank you for your support.

For your convenience you may access the ASHRAE website from the following links:

- [ASHRAE Main Web Page](#)
- [ASHRAE Resource Promotion Page](#)
- [ASHRAE Resource Promotion Online Contribution Form](#)



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