

FOG DISPENSER



Thursday, January 24 Dinner Meeting

MAIN PROGRAM:

THE BLEEDING EDGE OF THE REFRIGERATION INDUSTRY

SPEAKERS:

MARC-ANDRÉ LESMERISES- CEO & co-founder, Carnot Refrigeration

BRUCE NELSON -President of Colmac Coil Manufacturing, Inc. with headquarters in Colville, Washington

PHILIP HOLLANDER, PE, -Refrigeration Business Manager at Baltimore Aircoil (BAC)



MARC-ANDRÉ graduated in 2003 as a Mechanical Engineer and has since designed several industrial and commercial cooling systems. He is the President and co-founder of Carnot Refrigeration, company that was established in 2008 and that offers thermodynamic options to customers that are seeking cleaner and greener systems. Among his achievements are included the Sobeys warehouse in Trois-Rivières, several supermarkets and warehouses that are mainly operating with natural refrigerant like CO₂ and NH₃.

Creating high-efficiency refrigeration systems designed by a team of skilled and resourceful employees has made Carnot a leader in its field in North America, and its experience remains unmatched anywhere on the market. Carnot is qualified in meeting the needs of sports facilities (arenas), large and small supermarkets, data centers, distribution centers and food industry. Carnot Refrigeration believes in the future of sustainable development.

continued on next page

THURSDAY, JANUARY 24

5:30 PM TO 8:30 PM

SCOTT'S SEAFOOD

2 BROADWAY

OAKLAND, CA 94607

<http://www.scottsjls.com/location.html>

AGENDA:

5:30 pm

Registration and Social Hour

5:45:

Introduction to Refrigeration

6:30 pm

Dinner, Announcements
and Introductions

7:30 pm Main Program

8:30 pm Adjourn

COST:

\$320.00 Chapter meeting
voucher

Chapter Members:

Before 5pm, Jan 21 \$60

After 5pm, Jan 21 \$70

Non-Members:

Before 5pm, Jan 21 \$70

After 5pm, Jan 21 \$75

Students/Voucher Holder

Free, but please register before
January 21 to help us better
plan for meal and venue seats.

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GOLDEN GATE ASHRAE
FOG DISPENSER
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JANUARY 2019 COVER



BRUCE NELSON -President of Colmac Coil Manufacturing, Inc. with headquarters in Colville, Washington.

Mr. Nelson obtained his degree in Agricultural Engineering from Washington State University and has been employed at Colmac since 1981. He is a licensed Professional Engineer in the State of Washington.

Mr. Nelson currently serves on the IIR Board of Directors and Executive Committee as Chair-Elect and is the past Chair of the Research Committee. He is also a member of ASHRAE, The International Institute of Refrigeration (IIR), and The Institute of Refrigeration (IoR). Mr. Nelson is the author of several technical papers related to the field of refrigeration and heat transfer and holds a number of US and International patents.



PHILIP HOLLANDER, PE, -Refrigeration Business Manager at Baltimore Aircoil (BAC)

He has spent the last 20 years developing and launching technologies and products into the refrigeration and HVAC industries. In that capacity he has held roles in product development, strategy, marketing, and sales.

For the last five years he has focused on natural refrigerants, through product optimization, system analysis, and sales enhancement. He currently serves as the Business Manager for Refrigeration at Baltimore Aircoil Company (BAC), and is focused on growing the use of sustainable solutions in the industry. He holds engineering degrees from The Cooper Union, an MBA from New York University and nine patents.

Presentation Summary

The panel will discuss the use of natural refrigerants (CO2, ammonia, propane) and recent technologies that have made these systems safer, cost effective, and energy and water efficient. The panel discussion will be guided by our Golden Gate Refrigeration Chair, Ken Mozek.

EVENT CALENDAR 2019

**FOR MORE INFORMATION
AND DETAILS GO TO
WWW.GGASHRAE.ORG**

► THURSDAY, JANUARY 24.....DINNER

LOCATION: Scott's

SPEAKERS: Bruce Nelson, Marc-Andre Lesmerises,
Phil Hollander, Lead: Ken Mozek

TOPIC: SFMOMA: The bleeding edge of refrigeration a
Panel discussion

► THURSDAY, FEBRUARY 21.....DINNER

LOCATION: PG&E Pacific Energy Center

SPEAKER: Brad Cochran

TOPIC: 2019 Title 24- Prescriptive Requirements for Laboratory and Factory Exhaust Systems

► THURSDAY, MARCH 14 DINNER

LOCATION: TBD

SPEAKER: TBD

TOPIC: Topic about Grow Houses

► THURSDAY, APRIL 18 DINNER

LOCATION: PG&E Pacific Energy Center

SPEAKER: TBD

TOPIC: Preparing the Engineers of the future...

► THURSDAY, MAY 23 DINNER

LOCATION: PGE Pacific Energy Center

SPEAKER: Multiple

TOPIC: Product Show

► THURSDAY, JUNE 20.....DINNER

LOCATION: Scott's

SPEAKER: None

TOPIC: Installation Dinner

**GOLDEN GATE CHAPTER
MICHELLE DIONELLO,
JANUARY 2019**

Dear Golden Gate ASHRAE,

I have never been able to coordinate a holiday card to send out to our friends, but this year we took the first step and actually took a photo, so this month I am sharing it with you all. From the Golden Gate Board and my family, we hope you had a wonderful holiday season with your friends and family.

Thank you for those that came out to our joint meeting with the San Jose Chapter in San Mateo to welcome our current Society President; we had 70 members and guests join. President Sheila Hayter shared her call for action and some resources with us, as she tries to bridge the gap between the building and energy industry:



- *There is a Smart Grid Application Guide for Building Professionals that is coming out soon. The project started in November 2018 and if you want to be engaged in this, please let us know so we can connect you.*
- *ASHRAE is now connecting with the Cybersecurity industry experts so that members are well-informed of these issues. During the 2018 Summer Conference in Houston, a TC dedicated to this was born- TC 2.10, Resilience and Security, and Multi-Disciplinary Task Group on Health Wellness in the Built Environment. If you want to get involved, please reach out to the Chair of the committee, Jason DeGraw, Ph.D., Member ASHRAE.*
- *ASHRAE is also partnering with APPA, so that we can connect with universities that want to use their campuses as living laboratories. The intent is to implement and monitor innovative solutions in order to expand our knowledge of our new energy future.*

Before our meeting, the Golden Gate ASHRAE Chapter hosted “Coffee with President Sheila” at the AEI San Francisco office. This was an informal Q&A Session with her to learn more about her professionally, personally, and her experience as ASHRAE president. This was a great opportunity to learn more about her, but a few highlights that I wanted to share:

- *She started her ASHRAE path as a student member in 1987. She organized the speakers and technical tours for her student branch. This was her start in growing her ASHRAE community and ultimately who she called on when she was looking for a job, when she graduated. This is a perfect example of the value of an ASHRAE network.*
- *She has been at NREL for 27 years and her work continues to promote reductions in non-renewable energy through energy efficiency and increased use of renewable technologies.*
- *Her father was an engineer and ASHRAE Society president in 1995-1996; she went to her first meeting with him when she was 10 years old. A fun fact is that, her eldest child, is also studying Mechanical Engineering and Flute at Montana State. She assures us that she never pressured her daughter to be an engineer, but seems like it runs in the family!*

The winter conference is this month and if you are going, please join the plenary session and root on our two Golden Gate Fellows who will be recognized this year, Fred Bauman and Charles Eley.

This month’s meeting is a panel discussion on refrigeration and I think this is one you will not want to miss! Please come early to join the technical session and for 101 on refrigeration. Looking forward to seeing you at Scott’s. Thank you for your support and looking forward to 2019,

**Michelle Dionello,
Golden Gate ASHRAE President 2018-2019**



Tom Gilbertson, Chapter Historian

January 2019...Another New Year!

*How DID the requirements for Energy Calculations get started?...
and where did all that regulation come from?*

*Simply stated...you can blame the Golden Gate Chapter of ASHRAE
...Yep!...that's it!... "our Chapter Members"!*

Here is what happened...

Once upon a time...(all real history starts with that line...)...there was no statutory requirement for "energy consumption" in a building...Yep!...that's right!...as late as 1973 there existed no regulation of energy use within a building! No building code...of any State... had a requirement to regulate energy consumption as a design-consideration, of a building.

Comes now... the Gate Chapter-members of ASHRAE...and the plot thickens! Consider the following "conditions" that arose in 1973...

San Francisco Gate Chapter ASHRAE Members included:

1. *Thomas C. (Tom) Campbell – Santa Clara, CA – Owen-Corning Fiberglass Corp.'s Manager of Engineering Standards for Public Safety (Read that title again)*
2. *Thomas R. (Tom) Simonson - San Francisco – G.M. & T. R. Simonson Consulting Engineers*
3. *George Robert (Bob) Voelz – San Francisco – Skidmore Owings & Merrill – Director of Mechanical & Electrical Engineering in the San Francisco Office.*
4. *California State Senator Alfred Alquist...his District is Santa Clara, California*
5. *Owen-Corning's Fiberglass plant is arguably the largest employer in Santa Clara*
6. *Tom Campbell's work assignment includes promoting "Engineering Standards for Public Safety."*

Senator Alquist, a highly regarded State Senator, who was known to be very conservative... "recognizes" that the State of California's Public Utility Commission has identified the situation that California's electrical consumption is growing in excess of **8% per year**. The State Legislature issues the PUC's list of possible "Mandates" to address the "energy growth problem".

PUC MANDATE NUMBER 1 was an extensive directive to... "Develop guide lines to streamline the siting of new nuclear generation plants..."(Oh yes...that will quickly solve the problem!)

PUC MANDATE NUMBER 3 was three, short, lines that said something vague about ... "energy conservation".

The next think that happened was that the State established an "Energy Commission" ...funded it with a \$0.00002 surcharge on each kWh of electricity that was sold in the State...and issued a directive that five... "eminently qualified individuals" should be retained to develop energy conservation directives for buildings for buildings that were to be constructed in the State".

Tom Campbell and ASHRAE **Golden Gate Chapter President, Lou Pollack**, lobby the State to appoint Tom Simonson to the committee to prepare the "energy directives" ...and Simonson is appointed. (If you were to study Mr. Simonson's CV you would understand this...BS in Physical Chemistry from Cal, PhD in Physical Chemistry from Cal, licensed Professional Engineer in both Mechanical and Electrical, Partner in the firm of G.M. and T. R. Simonson – Consulting Engineers...and the former President of the Golden Gate Chapter...and the list goes on.)

continued on next page



So Simonson is appointed by the State, and he engages Bob Voelz (whose CV is impressive with his degree from Purdue, his PE Licenses and experience as the site engineer on the U. S. Air Force Academy in Colorado Springs and as Director of Engineering at SOM's San Francisco Office, to work with him on the perpetration of just "How to establish a method to restrict energy consumption in buildings"...And they did just that!

Think this over a bit...There are no rules...no starting-point on tonnage requirements or cfm, or heating use...let alone "energy" to provide building's requirements...SO...it is decided that to design a building, a primary basis for heat gain and loss, must be established.

So "Tom and Bob" decide that the basis for heat gain and loss must be "standardized, and required"...and they decide that "U-Factors must be specified"...and they do!....And the rest is history...the State accepts the concept, and in few years the State issues these "**Golden Gate Member design concepts**" as law....and we now had what became **Title 24**.

That's it...ASHRAE Golden Gate Members, Tom, Tom, Bob, and Lou worked to get the people appointed to do the work...and they did the work. They developed the concepts and they brought about the first Energy Consumption Regulations in the United States.... basically, with the "complements" of the Golden Gate Chapter of ASHRAE...and the cooperation of Senator Alquist.

But how did we get to where we are today?...with the increasingly expanded regulations?

As the saying goes..."If you give a mouse a cookie...he's going to want some milk" (Laura Numeroff)...and once you taste that cookie...the "wants" just keep growing...and they did....The authors sequel... "If you give a pig a pancake...." Spells -out pretty much what happened... and **once upon a time**...the regulations just kept on growing...until you get to where we are today...or haven't you filled out the latest Title 24 documents?



Chapter Scholarships Available

The Golden Gate Chapter of ASHRAE will distribute as much as \$45,000 in scholarships to our student members. These are independent of the scholarships and grants distributed by the ASHRAE National Society. This breaks down to: Eric T Andresen Memorial Scholarship Fund (twelve scholarships) \$45,000 and Golden Gate Chapter Student Scholarship (two scholarships) \$4,000. Please encourage any student members you know to apply for the Golden Gate Chapter's scholarships. The deadline for the Chapter scholarships is February 22, 2019. Please get the word out that applicants have a good chance of winning one of these scholarships due to the history of limited numbers of applicants.

Applications can be found at: <https://ggashrae.org/Students>

Contact Richard Paillon at: rpaillon@comcast.net with any questions.

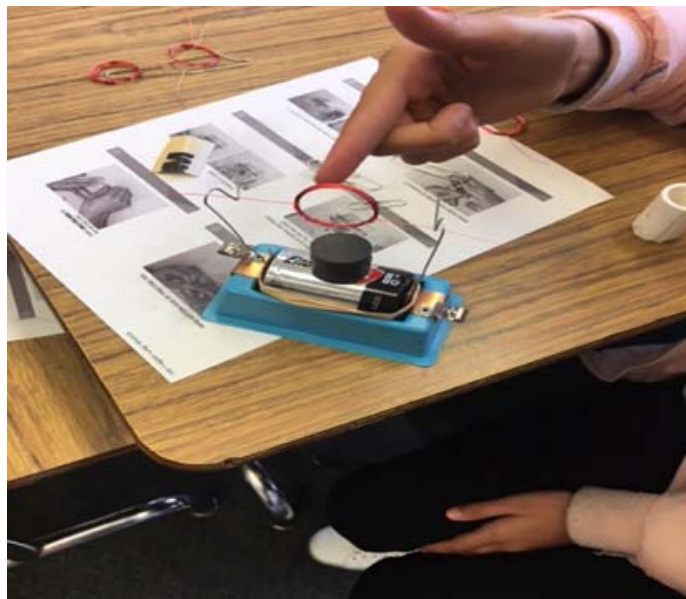


CALL FOR VOLUNTEERS - ASHRAE STEM OUTREACH WITH FIRST GRADUATE PROGRAM

Alicia Tan, K-12 STEM Leader

The ASHRAE Golden Gate Chapter will be representing ASHRAE in a STEM outreach collaboration with the First Graduate Program in San Francisco on Monday, January 28th from 3:00pm - 4:30pm where the students will learn through hands-on activities.

If you are interested in volunteering, please contact Alicia Tan at atan@enovity.com.





Brian Chacon, Membership Promotion Chair

Recruit a New Member and Receive ASHRAE Merchandise

We are always looking for new members to join our chapter and we need your help to find them. Recruit a new member to join the Golden Gate Chapter you will receive an ASHRAE Polo!



Welcome New Members!

We are halfway through a successful year of retaining our current members and recruiting new ones. When renewing your memberships, please pay your local chapter dues AND Society dues. Throughout the year I will list the members who joined over the previous month, be sure to keep a look out and give them a warm welcome! Below are our newest members:



Amy Nagengast

Mr William B Wright

Dr Yi-Shu Kung

Miss Michele Lam

Mr Scott Archer

Won Young Park

Mr Shane E Russell

Cheers, Brian Chacon

LEARNING OPPORTUNITIES

Evening Lecture Series: Designing Resilient Buildings in a Changing World

Resiliency requires designing for the built environment at different scales of time and space, and has the additional dimension of planning for human behavior and change. Rick Diamond will provide an overview of the types of natural and human threats - sea-level rise, flooding, earthquakes, fire, terrorism - to which engineers and designers need to respond. He will then present local and international case studies that may or may not be so resilient.

Thursday February 7, 2019 at the Pacific Energy Center

5:30 pm – 6 pm Networking and hors d'oeuvres

Lecture begins at 6 pm

In-person registration: <http://usi.pge.com/event-details?EventID=20280>

Simulcast registration: <http://usi.pge.com/event-details?EventID=20281>

Energy Trivia Night

Assemble your group and join us for a night of energy trivia, healthy and seasonal hors d'oeuvres, and music. This event will have teams of participants working together to answer trivia questions, our questions will be energy-related. Register for an evening of fun, food, music, education, and the chance to meet other energy aficionados.

Thursday March 7, 2019 at the Pacific Energy Center

5:30 pm – 6 pm Networking, hors d'oeuvres, and music

Trivia begins at 6 pm

Registration: <http://usi.pge.com/event-details?EventID=20354>

continued on next page

Evening Lecture Series: Pathways to 2050 – Decarbonization in a High Renewables Future

Snuller (Snu) Price, Senior Partner at Energy + Environmental Economics (E3), will discuss his firm's work for the California Energy Commission, examining scenarios to achieve California's ambitious climate goals. Snu will outline key strategies that must be launched and succeed to achieve the 2030 and 2050 goals. Specific strategies likely to be employed in buildings to meet these goals will also be discussed.

Thursday April 4, 2019 at the Pacific Energy Center

5:30 pm – 6 pm Networking and hors d'oeuvres

Lecture begins at 6 pm

In-person registration <http://usi.pge.com/event-details?EventID=20357>

Simulcast registration <http://usi.pge.com/event-details?EventID=20358>

Evening Lecture Series: The Latest on Energy Storage

Solar pioneer and author Danny Kennedy and colleague Yi Ke will update you on what's happening in the important and dynamic field of energy storage, both nationally and globally. Learn to recognize the latest key developments in energy storage and determine the key factors for financial assessment of energy storage projects.

Thursday May 2, 2019 at the Pacific Energy Center

5:30 pm – 6 pm Networking and hors d'oeuvres

Lecture begins at 6 pm

In-person registration <http://usi.pge.com/event-details?EventID=20359>

Simulcast registration <http://usi.pge.com/event-details?EventID=20360>

Evening Lecture Series: Biologically Focused Lighting – The Truth About Circadian Lighting

Industry trends are moving towards color tuning lights for circadian regulation, often with little understanding of the relationships between light, color and circadian stimulation. Robert Soler will define "social jet lag", and how its impact on health is changing the way we think about lighting and holistic design. Evidence will be provided on how light intensity and spectrum matter.

Thursday June 6, 2019 at the Pacific Energy Center

5:30 pm – 6 pm Networking and hors d'oeuvres

Lecture begins at 6 pm

In-person registration <http://usi.pge.com/event-details?EventID=20355>

Simulcast registration <http://usi.pge.com/event-details?EventID=20356>



Charlie Warren, Research Promotion Chair

What is the Resource Promotion Campaign?

The RP Campaign is an annual fundraising campaign benefiting the funding of numerous ASHRAE Programs. These programs include:

- **ASHRAE Research**
- **ASHRAE Scholarships for undergraduate students**
- **ASHRAE Learning Institute (ALI) development of new courses & materials**
- **Graduate Research Projects (Grants-in-Aid)**
- **Young Engineers in ASHRAE (YEA) Leadership Training**
- **Permanently endowed support to all of the above programs**

The RP Campaign is overseen by the RP Committee, a standing ASHRAE Committee. The committee is made up of 14 Regional Vice Chairs (RVC), 1 Consultant (past RVC), 3 Vice Chairs (past Consultant), and Chair (past Vice Chair). Staff support includes a 3-member team based at ASHRAE Headquarters. The RP Campaign raises over \$2.2 million a year from over 6,000 donors. These donors are made up of ASHRAE Members, industry associations, and industry organizations.

We have already had some generous donors. The following individuals have generously supported ASHRAE Research and Golden Gate Chapter for the 2018-19 Campaign.

Your contributions are much appreciated. Thank you for making a difference and shaping tomorrow's built environment today.

DONORS IN 2018-2019:

ORGANIZATIONS

Over \$1,000

Glen Friedman, PE

ORGANIZATIONS

\$250 to \$999

NAZZARO and ASSOCIATES

ORGANIZATIONS

Up to \$249

Genentech

INDIVIDUALS

\$250-\$999

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INDIVIDUALS

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INDIVIDUALS

Up to \$249

John Hill Gardner III

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Kenneth Hill

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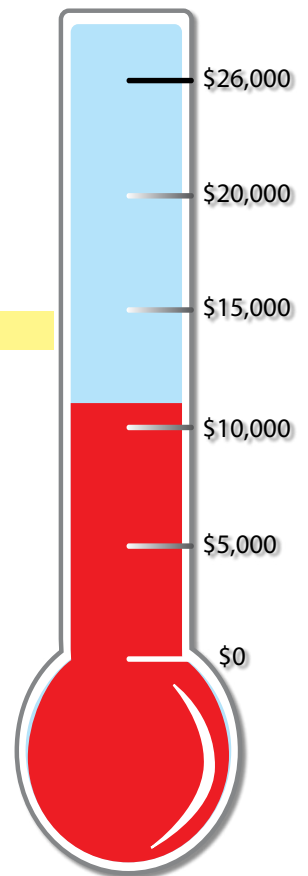
Alicia Tan

Charlie Warren

Scott Wayland

Matthew Williamson

Gerald Yaffe



Donations are tax deductible, by check, credit card or online at

www.ashrae.org/contribute

Mail Checks to: ASHRAE RP: 1791 Tullie Circle, NE: Atlanta, GA 30329

For more information, please visit Research and Promotions section on

www.ggashrae.org or contact RP Chair Charlie Warren at

(415) 742-9350, charlie@convexlabs.io

GOAL:
\$26,000

CONTRIBUTIONS:
\$11,144

ASHRAE Technology Awards

ASHRAE Golden Gate Chapter is now accepting submission for the Technology Awards Program. Please contact me if you are interested in submitting a project (application form attached). Deadline for submission enters is March 22rd, 2019.

The ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation. Their designs incorporate ASHRAE standards for effective energy management and IAQ. Performance is proven through one year's actual, verifiable operating data.

Application is easy! Get recognition for your great work!

IMPORTANT! Eligible projects must be occupied for one year prior to the national due date (September 2019), and one year of energy consumption data should be included. Your project must have been occupied by September 2018 to be eligible for the chapter awards.

There are three stages of competition and awards: Chapter, Region and Society/National. The first step in this process is to submit your project to the Chapter level competition.

First place winners from the Chapter competition move onto the Regional competition. The Regional first place winners are eligible to move onto the national Society/National competition. There are multiple Categories of buildings are eligible for application, new, existing and existing building commissioning (EBCx): Commercial, Institutional Educational, Institutional Other, Health Care, Industrial, Public Assembly, and Residential.

Please see our CTTC website or the following links for more info.

- PROGRAM INFORMATION:
<https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program>
- OVERVIEW AND HINTS:
<https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview>
- SHORT FORM APPLICATION:
<https://www.ashrae.org/File%20Library/docLib/HonorsandAwards/AwardDocs/Tech-Award-Application-Short-Form-January-2016.pdf>

Your application should include the following:

1. Short form application
2. Two-page narrative
3. OPTIONAL: Up to four 11x17 pages of pictures or schematics

For any more information or for submissions please e-mail: **Zeid Arnaout, CTTC Chair: Zeid.Arnaout@WeWork.com**

Please feel free to forward this to your colleagues that may be interested.

AMBIENT ENERGY, INC. – SAN FRANCISCO OFFICE

COMMISSIONING AUTHORITY

REQUIREMENTS:

- 2+ years of professional experience working as a Commissioning Engineer or MEP Design Engineer
- Experience with site inspections, functional testing, and energy audits
- Technical knowledge and understanding of HVAC, HVAC controls and electrical systems
- Demonstrated technical review, writing, and editing skills
- BS in Mechanical or Electrical Engineering or related discipline required

ENHANCEMENTS:

- PE, MS in Mechanical or Electrical Engineering, CxA, CCP or QCxP
- Participating in business development and proposals
- Experience working on at least 2 LEED projects
- Energy Audits

We offer a full range of employee benefits!

To apply contact Christina Seri at cseri@ambient-e.com or by phone at 303-278-1532 ext. 214

PACE ENGINEERING, INC

Mechanical Engineer

PACE Engineering, Inc., Redding, California has an opening for an experienced mechanical engineer beginning immediately. Candidates must have a BS in Mechanical Engineering and equivalent to 5+ years of experience.

PACE is a mid-sized (50 employees) multi-discipline engineering firm. Our range of mechanical engineering projects include working with architectural and other engineering professionals to create HVAC, piping, plumbing, control systems and fire suppression designs for schools; offices; hospitals; power utilities; water and wastewater utilities; and other facilities.

PACE offers industry wide competitive salary and benefits, as well as ownership potential, in a community with low cost of living.

For a more detailed job description and desired qualifications, visit our website at www.paceengineering.us
Send resumes to PACE Engineering, Inc., 1730 South Street, Redding, CA 96001, or email to klayton@paceengineering.us

BEYOND EFFICIENCY, BERKELEY, CA

Mechanical Engineer

Seeking a progressive mechanical designer or engineer with 4+ years post-academic building engineering experience. You understand how buildings and systems are put together and thrive on educating colleagues about how passive design improves occupant comfort and reduces heating and cooling loads. You have demonstrated creativity and technical excellence in providing mechanical and plumbing design for a variety of building types. You are also skilled with project management, design review and construction administration tasks.

We are a highly respected consulting team of progressive engineers and architects providing energy modeling, engineering and green building services for commercial, multifamily and single-family residential projects.

Contact Info Jobs@beyondefficiency.usn

job listings continued on next page

BEYOND EFFICIENCY, BERKELEY, CA

Energy Modeler

Seeking a progressive building simulation expert with 6+ years post-academic experience. You can hit the ground running with current projects, and lead new work initiatives. You understand how buildings are put together, how occupants interact with them, and can fully leverage the capabilities of modeling while understanding the limitations of applying it to the real-world complexity of buildings. You thrive on collaborating with colleagues, educating and learning from design teams, and presenting results to clients.

We are a respected consulting team of engineers and architects providing energy modeling, engineering and green building services for commercial, multifamily and single-family residential projects.

Contact Info Jobs@beyondefficiency.usn

BEYOND EFFICIENCY, BERKELEY, CA

Energy + Systems Specialist

Seeking a hands-on person with 6+ years post-academic experience. You're ready to hit the ground running with current projects as well as leading new work initiatives. You are highly experienced with one or more of the following: energy audits, commissioning (Cx), measurement and verification (M&V), facility management, mechanical systems design or energy modeling. You thrive on troubleshooting in the field and collaborating with colleagues, and are skilled with project management and design review.

We are a highly respected consulting team of progressive engineers and architects providing energy modeling, engineering and green building services for commercial, multifamily and single-family residential projects.

Contact Info Jobs@beyondefficiency.usn

DECEMBER MEETING RECAP



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