November Meeting  
November 21, 2017  
Theme: Refrigeration!

TOUR:
Cornell University Lynah Ice Rink

PRESENTATION:
Refrigerant Changes in the HVAC and Refrigeration Markets  
Michael Collins, Eagle Bay Refrigeration

To register, visit the Chapter website:  
http://twintiers.ashraechapters.org

Please send all newsletter comments to:  
Andrew Nice, Editor  
c/o Meier Supply Co.  
275 Broome Corporate Parkway  
Conklin, NY 13748  
Email the Editor
Dear Twin Tiers Chapter Members,

I hope everyone is enjoying the Fall season. Looking back on October, I would like to take a moment to acknowledge Kyle Nedlik’s efforts and assistance with putting together a great panel of speakers for the 2017 Southern Tier Professional Development Symposium, held at the Binghamton Holiday Inn Arena. This event was a joint venture with multiple professional organizations that are active in our area and was very well attended.

I, along with the board members and committee chairs, would be very interested to hear from you, our members. Tell us what you like or don’t like about our events; with your feedback, we can improve our meetings and presentations to offer greater value to you.

November will find us back on familiar ground at Cornell University, for a Tour of the Cornell Lynah Ice Rink, followed by a presentation on changes on the ever-evolving HVAC and refrigeration markets. Aaron DeBolt of Cornell University will be our Tour Guide for the evening and Michael Collins of Eagle Bay Refrigeration will be our presenter. As always, see our newsletter for additional meeting details and future planned events.

Sincerely,
-Petros Papathomopoulos
Twin Tiers Chapter President
# Twin Tiers Chapter

## Presidential Award of Excellence (PAOE)

<table>
<thead>
<tr>
<th>Chapter Operations</th>
<th>Chapter Technology Transfer</th>
<th>Electronic Communications</th>
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<th>Historical</th>
<th>Membership Promotion</th>
<th>Research Promotion</th>
<th>Student Activities</th>
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</tr>
</tbody>
</table>

POINTS CURRENT AS OF 11/09/2017

---

## Chapter Committee Chairs

**Technology Transfer**
Michael McGinnis  
(607) 727-3168  
[Email Me!](mailto:Michael.McGinnis@ASHRAE.org)

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**Publicity**
Andrew Nice  
(607) 760-5960  
[Email Me!](mailto:Andrew.Nice@ASHRAE.org)
## Twin Tiers Chapter—Monthly Meeting Information

### 2017-2018 Meeting Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Tech Session Topic, Tour or Meeting Info</th>
<th>Attendance</th>
</tr>
</thead>
</table>
| 19-Sep   | Adam Keller, Pro Air Plus Jerry Meyer Jr., MIS of America              | *Cooling Tower Basics*
|          |                                                                         | *Cooling Tower Shut-down and NSF Legionella Guideline*                        | 27         |
| 17-Oct   | Multiple/TBD                                                           | *Fall Engineering Symposium—Daytime*                                          | 67         |
| 21-Nov   | Michael Collins, Eagle Bay Refrigeration                                | **TOUR Cornell University Lynah Ice Rink Refrigerant Update**                |            |
| 19-Dec   | Distinguished Lecturer                                                 | *TBD*                                                                         |            |
| 16-Jan   | Lanny Joyce, Mark Howe, Lou Damiani, Pete Meenan, Cornell University   | **TOUR Upson Hall Cornell University**
|          |                                                                         | *High performance building design - Sibley School of Mechanical and Aerospace Engineering building* |            |
| 20-Feb   | Jason Gilbert                                                           | **TOUR Binghamton University Building**                                       |            |
| 20-Mar   | Ernie Nitsche                                                          | **TOUR Corning Inc. Sullivan Park**
| 17-Apr   | Multiple/TBD                                                           | *Spring Engineering Symposium—Daytime*                                       |            |
| 15-May   | Doug Clay, Sack Engineering                                            | **TOUR Tompkins Trust Building**
|          |                                                                         | *New Tompkins Trust HQ Project – Water Source VRF, DOAS, Cooling Tower, Boilers* |            |
| 19-Jun   | None                                                                   | *Golf Tournament*                                                            |            |

**NOTE:** Speakers and topics are subject to change based on availability.
Thank you Sponsors!

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Dear ASHRAE Twin Tiers Member or Research Promotion (RP) Supporter,

As the RP Chair and a fellow member of the Twin Tiers Chapter, I wanted to personally ask you for your help in supporting ASHRAE Research. ASHRAE’s research program, established in 1912, supports 140 research projects with a combined value of more than $15 million. Research focus includes energy and resource efficiency, indoor environmental quality, design, operation and management tools, alternative technologies, and materials and equipment. Through scholarships, grants and awards, the Society supports engineering education for undergraduate students and research projects for graduate engineering students and new post-doctoral scholars.

For Research Information please see the following site: https://www.ashrae.org/standards-research--technology/ashrae-rp
You can either donate directly with a credit card, see link below: https://xp20.ashrae.org/secure/researchpromotion/rp.html
or send a check to: ASHRAE Research Promotion att. Patricia Adelmann 1791 Tullie Circle NE Atlanta, GA 30329 Make check payable to “RP Donation-ASHRAE Twin Tiers”

Again, a personal Thank You for the following who have donated last year:

Air Temp Heating & Air Conditioning Inc
Michael Colwell
Travis Fisher
Brenton Ingraham
Christopher Kopec
Louis N Picciano & Son Incorporated

Mark Mattina
Michael McGinnis
Meier Supply Company
Raymond Millard
Arthur Monaco
Kyle Nedlik
Joseph O’Hara

Petros Papathomopoulos
Plumbers & Pipefitters Union 112
Francis Plunkett
Pro Air Plus Inc
Glenn Roberts
Norman Scott
Devin Shapley

I hope that ASHRAE and I can count on your support this year. Email me, or come see me at a Chapter Meeting if you have any questions.

Glenn Roberts
Twin Tiers Research Promotion Chair
Email Me
November Meeting Announcement

November 21, 2017

November Chapter Meeting

DATE: Tuesday, November 21th, 2017
TIME: 5:00PM

TOUR LOCATION: Cornell Lynah Ice Rink
536 Campus Drive
Ithaca, NY 14853

MEETING LOCATION: Hotel Ithaca
222 South Cayuga Street
Ithaca, NY 14850

TOUR: Cornell University Lynah Ice Rink

TOUR GUIDE: Aaron DeBolt, Cornell University

PRESENTATION: Refrigerant Changes in the HVAC and Refrigeration Markets

SPEAKER: Michael Collins, Eagle Bay Refrigeration

AGENDA: 5:00 – 5:15 – Meet for the Tour
5:15 – 6:15 – Tour of the Ice Rink
6:30 – 8:00 – Brief Chapter Meeting, Dinner, and Presentation

MENU: Buffet Dinner

REGISTRATION: Register online at http://twintiers.ashraechapters.org/ (Under the “Programs” Tab)
$25.00 Early Registration (By 11/17/2017)

$30.00 (After 11/17/2017)

CONTACT: Mike McGinnis
(Please call, text, or email me at below with any questions or if you get lost)
E: Email Me!
C: 607-727-3168
Thank you Sponsors!

American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

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Team Leader
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rbyrd@trane.com
www.trane.com

Ingersoll Rand
Twin Tiers Chapter – October BOG Meeting Minutes

Board of Governors Meeting
Date: October 17, 2017
Location: Water Str Brewing Co., Water Str, Binghamton, NY

http://twintiers.ashraechapters.org

Agenda

Meeting was called to order at 4:10 pm

- Call to Order and Attendance: Mike M., Devin S., Rob V., Jason G., Petros P., Andy N., Adam K., Chris W.

- General Announcements:

- Treasurer’s Report (Devin Shapley & Kyle Nedlik):
  - M&T: ACCOUNT IN GOOD STANDING
  - PayPal: ACCOUNT IN GOOD STANDING
  - H.O. Ward ($20,000 principal): ACCOUNT IN GOOD STANDING
  - William & Joan Albern ($20,000 principal): ACCOUNT IN GOOD STANDING

  - 2017-2018 Budget – Motion to approve by Mike M. – Second by Chris W.

- Tax forms signed by President/Treasurer. Rick Sanguinoto will mail forms and check.

- CTTC (Mike McGinnis / Kyle Nedlik)
  - Fall Symposium(Kyle): Attendance similar to 2016

  - Monthly Meetings (Mike):
    - No Wegmans for Nov (can’t go in Nov. or Dec.)
    - Cornell Ice Rink?
    - Jan @ Statler / Lipson hall
    - Wegmans in Feb. or March?

- YEA (Devin Shapley):
  - Jeopardy in Bearcat Room
  - Paintball in May?

- Membership Promotion (Chris Wolak): via e-mail: Attended centralized training in Atlanta
  - 7 delinquents

- GGAC (Adam Keller): - Government Officials list by December

- Student Activities (Jason Gilbert): E-Board to Organize GIM
  - Travis: Update on Cornell?
  - Students need to develop a budget for the winter trip
  - Alfred?
  - Put student resume on ASHRAE website
Twin Tiers Chapter – October BOG Meeting Minutes

- Research Promotion (Glenn Roberts): What is the plan for earning RP points? (Option 1 vs Option 2).
  - Full circle donations all set
- PAOE (Petros Papatheomopoulos): Reminder to chairs that they can update PAOE points.

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<th>CATEGORY</th>
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<tr>
<td>Student Activities*</td>
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PAOE requires achieving minimum in 5 of the 6 categories marked with *.

ALL RP POINTS ARE ENTERED BY ASHRAE STAFF. SEE THE 2017-2018 PAOE NEWSLETTER FOR RP CRITERIA. SEE PAOE POINT SUMMARY REPORT ON WEBSITE OR RP TRAINING MANUAL FOR RP YEAR-TO-DATE POINTS. The RP Report is sent to the Chapter RP Chair at the end of each month and to the Chapter Presidents four times during the campaign (December, March, May and July).

- New Business
  - Thompkins Update: vote on resolution authorizing Petros, Mike and Kyle to access the accounts and sign forms. Needed for setting up online access.
    - Travis motion to approve, second by Devin
- Old Business
  - Sign form for M&T to update roster. Devin to update
  - Chapter Homepage Editor / Webmaster position. Mike has shared webpage files with Travis and Petros.

Meeting was adjourned at **4:48**
Motioned: **Devin**
Second: **Petros**
2018 Call for Entries

It starts with ONE can: To feed the hungry. To lift the spirit. To change the world. Construction is an international hunger-relief competition where groups compete to design and build giant structures made entirely from canned food! 100% of monetary and food donations from Construction will go towards the Food Bank of the Southern Tier and CHOW’S hunger-relief work in Broome County.

The Southern Tier is joined by 100 cities across North America who will hold Construction competitions in the coming year. Highlighting the creativity and compassion of architectural and engineering groups, these astounding structures are helping to change the world—by lifting the spirits of those in need, by raising public awareness, and most importantly, by collecting millions of pounds of food for local food banks.

Do you think you have what it takes to design and build a structure made of nothing more than canned food?

When: April 8 - 15, 2018
Where: Oakdale Mall, 601-635 Harry L. Drive, Johnson City, NY
Costs: Entry Fee is $100 per team (non-refundable)

Teams are responsible for acquiring the canned food their structures

For more information: visit www.foodbankst.org/construction or contact the Construction Chair, Kyle Nedlik via email at BUI.Construction@gmail.com

Name
Address
City State Zip
Contact Name
Phone Number
Email

Please complete this form and mail with your payment by Friday, January 12, 2018 to:
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Email: joe.ohara@camfil.com
www.camfil.com

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New York State Professional Engineers
Self Study Ethics PDH Available!

As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help you stay abreast of your professional responsibilities, has developed this short, self-study educational activity in ethics.

This educational activity is based on the New York State Education Law Articles 130 and 145, the Rules of the Board of Regents Parts 1, 3, 17, 18, 28, 29, 31, and the Regulations of the Commissioner of Education Parts 59 and 68. It is strongly recommended that, prior to taking the self test, you review these foundational materials (http://www.op.nysed.gov/prof/pels/pelaw.htm) on the engineering web site.

Once you have reviewed the foundational materials, proceed to complete the self test below. When you have completed the self test, click the "Get your score" button at the bottom of the page. You should print this screen and save it as evidence of satisfactory completion of this educational activity. A score of 90% or greater will allow you to claim 1 Professional Development Hour (PDH) of educational activity credit in ethics ONCE in each three-year registration period. Retain your printed screen for no less than 6 years from the date of completion.

Take Your PE Ethics Self Test Here!

http://www.op.nysed.gov/prof/pels/peceselftest.htm
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One-part course (3 hours) $284 ($219 ASHRAE Member) -- -- Two-part course (6 hours) $484 ($359 ASHRAE Member)

- Basics of High-Performance Building Design  
  Wednesday, February 8, 2017 – 1:00 p.m. to 4:00 p.m.
- Designing Toward Net-Zero Energy Commercial Buildings  
  Tuesday, February 14, 2017 – 1:00 p.m. to 4:00 p.m.
- ASHRAE Guideline 6: The Commissioning Process  
  Tuesday, February 21, 2017 – 1:00 p.m. to 4:00 p.m.
- Commissioning Processes & ASHRAE Standard 202  
  Monday, February 27, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Fundamental Requirements of Standard 62.1-2016  
  Thursday, March 9, 2017 – 1:00 p.m. to 4:00 p.m.
- Commissioning Process in New and Existing Buildings Part I: Monday, March 13, 2017 – 1:00 p.m. to 4:00 p.m.
  Part II: Wednesday, March 15, 2017 – 1:00 p.m. to 4:00 p.m.
- Design of Affordable & Efficient Ground Source Heat Pump Systems  
  Wednesday, March 29, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Complying with Standard 90.1-2016: Envelope/Lighting  
  Wednesday, April 5, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Complying with Standard 90.1-2016: HVAC/Mechanical  
  Monday, April 10, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Complying with Standard 90.1-2016: Appendix G  
  Tuesday, April 18, 2017 – 1:00 p.m. to 4:00 p.m.
- Air-to-Air Energy Recovery Fundamentals  
  Wednesday, May 3, 2017 – 1:00 p.m. to 4:00 p.m.
- Air-to-Air Energy Recovery Applications: Best Practices  
  Tuesday, May 9, 2017 – 1:00 p.m. to 4:00 p.m.
- Humidity Control: Basic Principles, Loads and Equipment  
  Tuesday, June 13, 2017 – 1:00 p.m. to 4:00 p.m.
- Humidity Control: Applications, Control Levels and Mold Avoidance  
  Tuesday, June 20, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: New ASHRAE-Classified Refrigerants to Meet Society’s Changing Needs  
  Tuesday, July 11, 2017 – 1:00 p.m. to 4:00 p.m.
- Advanced High-Performance Building Design  
  Wednesday, August 9, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Fundamental Requirements of Standard 62.1-2016  
  Wednesday, September 6, 2017 – 1:00 p.m. to 4:00 p.m.
- Designing High-Performance Healthcare HVAC Systems  
  Tuesday, September 12, 2017 – 1:00 p.m. to 4:00 p.m.
- Laboratory Design: The Basics and Beyond  
  Tuesday, October 10, 2017 – 1:00 p.m. to 4:00 p.m.
- Introduction to Ultraviolet Germicidal Irradiation (UVGI) Systems  
  Monday, October 16, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: Complying with Standard 90.1-2016  
  Part I: Wednesday, November 1, 2017 – 1:00 p.m. to 4:00 p.m.
  Part II: Tuesday, November 7, 2017 – 1:00 p.m. to 4:00 p.m.
- NEW: New ASHRAE-Classified Refrigerants to Meet Society’s Changing Needs  
  Tuesday, December 5, 2017 – 1:00 p.m. to 4:00 p.m.

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HVAC Design: Level I – Essentials  
Registration is $1,264 ($1,009 ASHRAE Member)
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HVAC Design: Level II – Applications  
Registration is $554 ($459 ASHRAE Member)
HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register and learn how your Chapter can earn PAOE points.

Contact Karen Murray (kmurray@ashrae.org) to discuss scheduling ASHRAE HVAC Training in your Chapter area.
Governor Cuomo and Attorney General Schneiderman Announce Intent to Sue EPA Over Failure to Protect New Yorkers from Out-Of-State Air Pollution

www.governor.ny.gov

By Press Office of NYS Governor Oct. 26, 2017

Governor Andrew M. Cuomo and Attorney General Eric T. Schneiderman today filed a notice of intent to sue the Environmental Protection Agency for violating the federal Clean Air Act by failing to curb ground-level ozone (or "smog") pollution that blows into New York from upwind states.

At least one in three New Yorkers breathe air with unhealthy levels of smog pollution, with some analyses placing it as high as two in three New Yorkers (approximately 12.7 million people). The EPA's own studies demonstrate that pollution from states upwind of New York contributes substantially to the state's dangerous smog problem. Specifically, New York is asking that EPA require sources in five states—Illinois, Michigan, Pennsylvania, Virginia, and West Virginia—to do their fair share to address pollution impacting New York. "New York is doing everything in its power to reach our clean energy goals, limiting air pollution and reducing our carbon footprint in every corner of the Empire State - but air pollution knows no borders," Governor Cuomo said. "With this action, New York makes it clear that we will not stand idly by as other states shun their responsibility to keep our nation's air quality safe. It's critical that these states take the necessary steps to reduce their environmental impact for future generations and I urge them to follow New York's lead to secure a cleaner and greener tomorrow for all."

"Millions upon millions of New Yorkers are still breathing unhealthy air due to smog pollution, a huge amount of which is blowing into New York from upwind states," said Attorney General Schneiderman. "If the EPA won't follow the law, we'll sue to protect the health of New Yorkers."

New York has some of the strictest air quality regulations in the country and pollutants that cause smog - such as nitrogen oxides and volatile organic compounds - are well controlled. In fact, New York has among the lowest emissions of NOx and VOCs in the country. Despite New York's best efforts to combat smog pollution, the New York City metropolitan area has struggled for years to meet the federal health standard for smog and - according to a 2017 America Lung Association report - it is the ninth most smog-polluted area in the nation.

The EPA has concluded that there are a number of dangerous health impacts associated with elevated levels of smog, including lung tissue damage, and aggravation of existing conditions, such as asthma, bronchitis, heart disease, and emphysema. Exposure to smog is also linked to premature death. Some groups - including children, the elderly, and those with existing lung diseases, such as asthma - are at especially heightened risk from smog pollution.

"To protect the public and our environment, New York has some of the most rigorous air quality standards in the nation," said Department of Environmental Conservation Commissioner Basil Seggos. "But pollution doesn't recognize state borders, and without the EPA requiring states upwind states to limit pollution, we are left to further limit pollution from New York sources. For the sake of public health, we're calling on EPA to act."
The "Good Neighbor" provision of the federal Clean Air Act requires the EPA to step in and adopt plans to reduce interstate smog pollution when the actions of upwind states are not sufficient to ensure that federal smog health standards can be met and sustained in downwind states like New York. The EPA's obligation under the Act to adopt such plans - known as "Federal Implementation Plans" or "FIPs" - reflects the Agency's unique position and authority, as a federal agency, to ensure that the individual efforts of multiple upwind states will be sufficient, in aggregate, to solve regional air pollution problems, such as smog.

On August 12, 2015, the EPA determined that the planned actions of 24 states, including several states upwind of New York (Illinois, Michigan, Pennsylvania, Virginia, and West Virginia), would not sufficiently and collectively reduce pollution emissions to ensure that federal smog health standards could be met and sustained in New York. This determination triggered a two-year deadline under the Clean Air Act - ending August 12, 2017 - for the EPA to adopt FIPs for these upwind states. Despite this statutory deadline, the EPA has to date failed to adopt these legally-mandated plans.

Relatedly, a federal court recently held that the EPA had not fulfilled its obligation to issue a FIP for Kentucky's Good Neighbor provision obligations under the 2008 ozone standard by the statutory deadline and, in May 2017, denied a Trump EPA request for an additional 20-month delay in issuing the FIP.

The Clean Air Act requires parties to provide the EPA notice of their intention to sue the Agency under the Act. Accordingly, Attorney General Schneiderman is today informing EPA Administrator Scott Pruitt that unless the Agency fulfills its mandatory duty under the Good Neighbor provisions of the Act and protects New Yorkers from smog pollution within 60 days, he will sue the to compel Administrator Pruitt to fulfill that duty.

Smog is not emitted directly into the air, but forms when other pollutants, such as nitrogen oxides and volatile organic compounds, react in the presence of sunlight. NOx and VOCs can travel hundreds of miles after they are emitted. The EPA has recognized for decades the regional nature of the smog, and that pollution from power plants, motor vehicles, factories, refineries, and other emission sources located in multiple upwind states contributes to downwind states' smog problems. Because of this, the EPA has long known that downwind states cannot solve their smog problems on their own, and that reducing smog in downwind states such as New York requires upwind states to reduce their "interstate transport" of smog pollution.

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Associate's degree 2 years minimum in mechanical engineering technology, construction technology or related field and at least 5 years relevant experience in design of HVAC, plumbing, and fire protection systems, or equivalent combination of education and experience. Working knowledge of current codes and industry standards in discipline (NYS Building Codes, ASHRAE, ASME, NFPA). Technical knowledge of design and construction industries. Must be knowledgeable of building mechanical systems and construction estimating. Ability to comprehend construction drawings and specifications.

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For a more detailed position description and to create a profile to apply online please follow this link, https://hr.cornell.edu/jobs/external-applicants and get connected to Cornell recruiters.
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- Attend client meetings and assist in marketing efforts.

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- Experience with Design of mechanical (HVAC) systems for educational facilities is desired.
- Licensed Professional Engineer (PE) or EIT and preparing to obtain professional licensure preferred.
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- Proficiency with building energy modeling concepts and software preferred.
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- Acts as lead engineer on projects and provides conceptual guidance to Mechanical Designers and Mechanical Engineers on wide range of projects.
- Provides consultation to professional co-workers. Mentors junior level department designers.
- Review and respond to team member on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner
- Monitor and control project progress against scope, schedule, and budget
- Attend client meetings and assist in marketing efforts

Requirements:

- Bachelor’s degree in Mechanical Engineering, Mechanical Engineering Technology, or similar field with 15 years of experience designing building mechanical (HVAC) systems.
- Experience with design of mechanical (HVAC) systems for educational and federal facilities is desired.
- Licensed Professional Engineer (PE) in New York State, with ability to be licensed in other states as requested.
- Proficient in AutoCAD and Revit/BIM with working knowledge of MS Office.
- Proficiency with building energy modeling concepts and software preferred.
- Knowledge of applicable codes and standards.
- Possesses and applies a broad knowledge of principles, practices and procedures to the completion of difficult assignments.
- Knowledge of and demonstrated interest in energy efficient solutions and designs, and in LEED strategies and designs.

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• Conducts site observations as required to perform the design.
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