Bo Petersson, MS, PE| Sr. Forensic Mechanical Engineer

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Professional Summary:

Mr. Bo Petersson is a licensed Professional Engineer in several states in the United States.

Mr. Petersson has over 35 years' experience in designing, operating, troubleshooting, and failure analysis of mechanical systems such as air handlers, chillers, boilers, steam, natural gas and propane, thermal distribution systems as well as plumbing components and systems. Additionally, Mr. Petersson has experience in operating and designing chilled water plants and central heating plants. Mr. Petersson is proficient in researching, analyzing, and interpreting local and national codes and standards.

In addition to designing and operating mechanical systems, Mr. Petersson has significant experience with system controls and energy efficient applications. His experience includes systems for complex facilities such as laboratory buildings, cleanrooms, biocontainment facilities, healthcare facilities, and museums. He has additional experience in analyzing control system trends, building energy usage and control system troubleshooting.

Mr. Petersson's experience includes higher education facility operations, building commissioning, and engineering design as well as failure analysis.

Mr. Petersson's expertise includes:

- Plumbing component, appliance, and systems
- Mechanical equipment and system analysis
- Building Commissioning
- System operation and energy use analysis
- Control systems
- Code reviews
- Troubleshooting
- Mechanical system design, design reviews, and system selections.
- Central heating and cooling plants operation and failures.

Licenses and Certifications:

Professional Engineer:

New Hampshire, 9175

Vermont, 018.0134420

Rhode Island, 13070

Maine, PE16274

Connecticut, 34242

Massachusetts, 55501

New York, 102777

National Engineering Registration, NCEES, 17-326-95

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OSHA 10 Certified

LEED-AP Certified

Certified Fireplace and Chimney Inspector – License FCI-419

Professional Experience:

EFI Global, Senior Forensic Engineer, 2019-present

Berry Wehmiller Design Group, Senior Mechanical Engineer, 2018-2019

Cornerstone Commissioning, Director of Engineering Services, 2008-2018

Dartmouth College, Campus Mechanical Engineer, 2006-2008

Cornerstone Commissioning, Senior Commissioning Engineer, 2004-2006

Dartmouth College, Assistant Director Engineering and Utilities, 2002-2004

Dartmouth College, Campus Mechanical Engineer, 1994-2002

National Medical Care, Facilities Mechanical Engineer, 1993-1994

R.G. Vanderweil, Energy Engineer, 1992-1993

Charles R. Wilson Engineering, Design Engineer, 1989-1992

Formal Education:

Master of Science, Mechanical Engineering. Lund University, Sweden.

Research Thesis: "Performance Optimization of Rocket Nozzles with High Aspect Area Ratios. A study of Friction and Divergence Losses."

Specialized Education/Training:

Ethics for Engineers, PDH Online, PDH Online, 2020

Post-Blast Investigations of Gas Appliances and Systems. Fire Findings, Inc. Flint Michigan.

Best Practices for Designing Fire Protection Features, PDH Online, 2025

HVAC for Cleanroom Facilities, PDH Online, 2025

HVAC Systems and IAQ, PDH Online, 2024

Selection and Sizing of Pressure Relief Valves, PDH Online, 2024

Introduction to Fire Protection Systems, PDH Online, 2024

Mold Remediation in Schools and Commercial Buildings, PDH Online, 2024

Fireplace and Chimney Inspector Course, F.I.R.E Certification, 2023

Ethics for Licensed Professionals, PDH Online, 2022

Cooling Water Systems, PDH Online, 2022

Standards Pertaining to Valves in Oil and Gas Industry, PDH Online, 2022

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Specialized Education (Continued):

Residential Sprinkler Systems, PDH Online, 2022

Environmental Issues and Refrigerants, PDH Online, 2022

Compressed Air Systems, PDH Online, 2022

Pumps NPSH, PDH Online, 2022

Stairwell Pressurization Systems, LF Systems, 2021

Building Energy Boston, Northeast Chapter of Sustainability Energy Association, 2021

An Engineers Guide to Plumbing Cross Connections, PDH Online, 2020

Introduction to Indoor Air Pollutants, PDH Online, 2020

Professional Ethics 101, PDH Online, 2020

Advances in Clean Agents for Fire Protection, PDH Online, 2020

Air Moving Systems and Fire Protection, PDH Online, 2020

Overview of Refrigerant Selection, PDH Online, 2020

Fundamental of Kitchen Ventilation, PDH Online, 2020

Refractory Materials, PDH Online, 2020

Residential Electrical Systems, CFI Trainer.net, 2020

Introduction to Appliances, CFI Trainer.net, 2020

Leginella Tech Session, ASHRAE Granite State Chapter, 2019

Air Source Heat Pumps, ASHRAE Granite State Chapter, 2019

Residential Natural Gas Systems, CFI Trainer.net, 2019

Investigating Natural Gas Systems, CFI Trainer.net, 2019

Intergrated Building Design, ASHRAE Granite State Chapter, 2019

Fire Protection Systems, CFI Trainer.net, 2019

Residential Building Construction, CFI Trainer.net, 2019

Electrical Safety, CFI Trainer.net, 2019

Basic Electricity, CFI Trainer.net, 2019

Fundamentals of Interviewing, CFI Trainer.net, 2019

Arc Mapping, CFI Trainer.net, 2019

Making Energy Efficiency a Reality, ASHRAE Webinar, 2019

Improve Boiler Performance, Cleaver-Brooks Webinar, 2019

Boiler plant optimization, Cleaver Brooks Webinar, 2019

High Performance School Design, ASHRAE Granite State Chapter, 2019

Future of Refrigerants for Unitary and VRF Systems, ASHRAE Webcast, 2019

Basics for Boiler Venting, Cleaver Brooks Webinar, 2019

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Specialized Education (Continued):

Sizing and Selection for Heat Pumps, ASHRAE Granite State Chapter, 2019
Optimized Ventilation for High Performance Buildings, ASHRAE Webinar, 2019
Electrical Microgrid Systems, ASHRAE Granite State Chapter, 2018
Moisture Issues in Buildings, ASHRAE Granite State Chapter, 2018
Shaft Grounding Rings, Aegis Webinar, 2018
Keep Your Boilers Operating Safely, Cleaver Brooks Webinar, 2018
Boiler Operating Trends, Cleaver Brooks Webinar, 2018
Fan laws and Fan Curves, ASHRAE Granite State Chapter, 2018
Residential Wood Fired Boilers, ASHRAE Granite State Chapter, 2017
Steam Fundamentals, ASHRAE Granite State Chapter, 2017
Parallel Pumping, ASHRAE Granite State Chapter, 2017
Building Controls Automation and Software, ASHRAE Granite State Chapter, 2017
Data Centers HVAC Modeling, ASHRAE Granite State Chapter, 2017
Next Generation Refrigerants, ASHRAE Granite State Chapter, 2017
The Value of Energy Efficiency Investment, Jones Seminar Thayer School of Engineering, 2017
Appliance Venting, ASHRAE Granite State Chapter, 2017
VVR Compressor technology, ASHRAE Granite State Chapter, 2016
Ozone Generators, ASHRAE Granite State Chapter, 2016
Beyond Refrigerant 410a, ASHRAE Granite State Chapter, 2016
Making Net Zero Net Positive, ASHRAE Webcast, 2016
High Efficiency Medical Building Design, ASHRAE Granite State Chapter, 2016
Energy Efficient Water Based Systems, ASHRAE Granite State Chapter, 2016
Future Trends; Where is Healthcare Design Going, NEHES, 2016
2012 NFPA 101 and 99, NEHES, 2016
Advances in VRF Technologies, ASHRAE Granite State Chapter, 2016
2015 IBC and NFPA 101 Life Safety Code, NNECERAPPA, 2016
Best Practices for Lab Design, NNECERAPPA, 2016
Better than Before, HVAC System Improvements, NNECERAPPA, 2016
Concept to Completion, I2SL Tech Talk, 2015
Existing Building Commissioning, ASHRAE Webcast, 2015
Environmental Trends in Data Centers, ASHRAE Granite State Chapter, 2015
Designing Geothermal Heatpump Systems, NNECERAPPA, 2015
Reverse Flow Energy Recovery Systems, ASHRAE Granite State Chapter, 2015

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Specialized Education (Continued):

Commissioning Optimization, ASHRAE Granite State Chapter, 2015

Air to Air Heat Recovery Technologies, ASHRAE Boston Chapter, 2015

Current VRF Technology, ASHRAE Granite State Chapter, 2015

When Bad Things Happens to Good Laboratories, 2014 Laboratory Design Conference, 2014

Efficient HVAC Design for Laboratories, 2014 Laboratory Design Conference, 2014

Life Cycle Design, 2014 Laboratory Design Conference, 2014

LEED v4.0, US Green Building Council NH Chapter, 2014

Off the Grid, US Green Building Council NH Chapter, 2014

Improving Energy and Comfort, NNECERAPPA 2014

How to Ensure Successful Project Delivery, NNECERAPPA 2014

Energy Modeling, ASHRAE Granite State Chapter, 2014

A list of additional training prior to this date is available upon request

Affiliations:

Member, American Society of Heating, Refrigeration, and Air Conditioning Engineers

Guest Lecturer:

Energy Efficient Building Design at Dartmouth College, Dartmouth Thayer School of Engineering Guest Lecturer 2010-2018

Publications and Presentations:

Petersson Bo, "Commissioning a LEED Platinum Science Building." Construction Specifier, 2014

Petersson, Bo, "Making a Case for the Soft-Landing Concept." Lab Design News, 2014

Petersson Bo, Smith Robert "Historic Dartmouth Embraces Campus Cooling." International District Energy Association Magazine1998

I2SL Webinar: Energy Retrofits of Existing Lab Building

Energy Efficient Lab Design, Labs 21

When Bad Things Happens to Good Laboratories, Laboratory Design Conference

Integrated Design at Dartmouth College, ASHRAE NH Chapter

Dartmouth Hitchcock Williamson Translational Research Building, ASHRAE NH Chapter

When Bad Things Happens to Good Buildings, NNECERAPPA

Dartmouth Central Chilled Water Plant Design and Operation, NNECERAPPA

Dartmouth Central Chilled Water Plant Design and Operation, ASHRAE Granite State Chapter

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Converting Condenser Pumps to VFDs in an Absorption Chiller Plant, International District Energy Association

Presentation of Life Science Building at Dartmouth College, AIA NH Chapter

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