Fraser Engineering Company, Inc. is your Single-Source Contracting solution. Fraser maintains an excellent reputation for high quality workmanship on Mechanical, Plumbing, Process, Electrical and Service projects since its founding 1950. In 2003, we became an ESOP company and in 2010, we were certified by the Center for Women & Enterprise and SOMWBA as a Women Business Enterprise, WBE.

Core Competencies and Differentiators

- Commitment to Success
- Design Build
- BIM Coordination
- In-house Equipment Startup
- In-house 24 – 7 Emergency Service
- Quality Control
- WBE, Women Business Enterprise
- ESOP, Employee Owned
- 61 years Experience
- 3rd Generation – Family operated

Past Performance

**Cubist Pharmaceuticals – Lexington, MA – $7,300,000.00:** Cubist Pharmaceuticals wanted to create a flexible space for the early stage development of new pharmaceuticals. Fraser completed work on the four floors, 110,000 square foot life sciences laboratory expansion entailing furnishing and installation of all HVAC equipment, wet side and air side, including lab tenant fit-out.

- Intricate vertical expansion over an occupied first floor while keeping all systems operating
- Systems installed within 6 months
- BIM coordination was utilized
- Installed lab supply and exhaust systems, with heat recovery, and infrastructure consisting of 2-700 ton chillers and 2-300HP boilers

*Reference: Thomas Perry, the Richmond Group – 508.435.9700*

**Moakley Federal Courthouse – Boston, MA – $1,330,000.00:** At the Moakley Federal Courthouse, Fraser furnished and installed a Mitsubishi ‘City-Multi” HVAC system in the 675,000 square foot existing Courthouse.

- Work was completed at night to accommodate the fully operational Federal Courthouse
- System needed piping installed within manufacturer’s requirements in order to ensure proper operation
- System turnover was done without interruption to user’s operations

*Reference: Marc Belanger, CCB, Inc. – 207.464.2626*

**Dean College – Franklin, MA – $900,000.00:** Fraser Engineering, in conjunction with Consigli Construction, completed a design/build HVAC upgrade to the Dean College Campus Center.

- Design – Build Project: including conceptual design and budgeting, value analysis and construction documents
- June to August Construction Schedule
- Conversion of Steam to Hot Water heating, Ventilation systems
- Systems included new steam to hot water converters, hot water radiation, air handling units with condensers and packaged roof top units with associated piping ductwork and DDC controls.

*Reference: Mike Murphy – Consigli Construction - 508.473.2580*

**Lower Falls Community Center – Newton, MA – $250,000:** At the Lower Falls Community Center, Fraser Engineering removed the existing steam atmospheric boilers and air handling system.

- Green Initiative - Air handlers were installed with multiple zones and Variable speed drives to provide energy savings
- New control system to allow for night setback and morning warm up
- Replacing an old system of steam to hot water - utilizing high efficiency boiler technology
- Design – Build project
- Systems installed: High Efficiency hot water boilers, with a complete new boiler primary secondary piping system, new air handlers, control system

*Reference: Josh Morse, City of Newton – 617.796.1000*
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Past Performance

**Martha's Vineyard Hospital – Oaks Bluff, MA - $2,510,000.00:** A 90,000 square foot new hospital was built for Partners Healthcare while the existing facility remained fully operational. The Plumbing division at Fraser Engineering was employed to install plumbing and medical gas systems for the new facility.

- Project – A new, state of the art, 25-bed Hospital, complete with two operating theaters and a birthing tub in the delivery room
- Achieved a LEED Gold rating – Highest LEED rated Hospital within the Commonwealth
- Work completed from the ground-up
- Project includes emergency/trauma department, laboratories, PACU, LDR rooms, OR's and patient rooms

*Reference: Neil Lemeiux, Columbia Construction – 978.664.9500*

**Boston Housing Authority – Boston, MA - $2,000,000.00:** Fraser performed work on gas piping projects and completed a hot water system for Boston’s largest landlord and largest public housing authority within New England.

- BHA is one of the top 10 largest housing authorities in the nation
- Piping for a Steam Fired Hot Water system in 28 buildings

*Reference: Tom Pellegrini, Boston Housing Authority – 617.988.4000*

**Babson College – Babson Park, MA –** Fraser Engineering’s Plumbing Division has completed multiple projects at Babson College, which support their sustainability and green initiatives.

- University setting where projects were completed within an occupied space

*Reference: Bill Johanson, Babson College – 781.235.1200*

**Woods Hole Oceanographic Institution – Woods Hole, MA:** Woods Hole Oceanographic Institution, WHOI, is the world’s largest, private, nonprofit ocean research, engineering and education organization. Fraser has completed work on complex, specialized projects specifically for the institute.

- Work within occupied spaces while fully coordinating with institute’s the of around research projects being completed at the institution
- Specialized piping was designed and used to fit the WHOI standards
- Installed laboratory piping services and special waste
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Core Competencies and Differentiators

- Design Build
- BIM
- Service start-up
- In-house Preventative Maintenance plans
- 24 – 7 Emergency Service
- Quality Control
- Stamps – U, PP, R
- Commitment to Success
- WBE, Women Business Enterprise
- ESOP, Employee Owned
- 61 years Experience
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Past Performance

**Bristol Community College – Fall River, MA - $500,000.00:** Fraser Engineering completed energy efficient upgrades and solar panel installations on several energy related projects including the refurbishment of all of the unit ventilator controls in every classroom and building throughout the college campus.

- Refurbished control systems within every classroom
  - High-energy efficiency motors on the largest pumps and air-handling units for quiet, comfort
- Photo panels completed by in-house Fraser Electricians
- Panels produce approximately 112,275 KWH of electricity which is directly used by the college – this offsets 112,275 KWH of electricity that the college would have otherwise needed to purchase
  - This project saved 28% on electricity, 31% on natural gas and 40% on water – roughly $450,000.00 per year
- Named “Best in New England” by the Association of Energy Engineers
- Systems installed: 420 Photovoltaic solar panels on the roofs of 3 academic buildings, refurbishment of unit ventilator controls

*Reference: Carl Anctil, Bristol Community College – 508.678.2811*

**Garelick Farms – Lynn and Franklin, MA - $2,000,000.00:** As General Contractor, Fraser installed two separate Cogeneration Systems, concurrently for Garelick Farms, a local, New England dairy production company.

- The Cogeneration System is a Combined Heat and Power, CHP, Plant that simultaneously generates both electricity and Thermal Energy for use within the plant based on a gas-fired reciprocating engine gen-set
  - Each Plant generates up to 2 Mega Watts of Electricity
- Fraser was the General Contractor, self-performing all Mechanical and Electrical scope, while subcontracting civil/architectural work
- With CHP the excess heat is captured and used to produce thermal energy within the plant
- The plants utilized a heat recovery steam generator, HRSG
- Systems installed: Cogeneration Systems, HRSG

*Reference: Rink Wheeler, Garelick Farms – 508.553.5311*

**Boston Museum of Science – Boston, MA - $900,000.00:** The Museum's steam utility cost had risen sharply and become a burden. To address the situation, Fraser installed a completely new and independent, gas-fired, low pressure steam boiler plant.

- Steam boiler plant supplies all HVAC systems
- Utility steam supply was retrofitted to an independent, stand alone steam plant
- Retrofit existing high pressure steam systems to low pressure service
- This project allowed the Museum to make substantial annual energy savings and gave them flexibility and control of their own, independent system
- Systems installed: Gas-fired, low-pressure steam boiler plant

*Reference: Kevin Sullivan, Ameresco – 508.598.3028*
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Most recently, Fraser has expanded into the pharmaceutical and biotech industries. Fraser is now offering ASME Section IX orbital welding compliant to the latest BPE standards; new and existing clients can take advantage of state of the art welding equipment and many years of experience to complete projects.

### Core Competencies and Differentiators

- Design Build
- BIM
- Turnkey Process Solutions: Mechanical/Electrical/Controls
- Extensive Weld Documentation Packages
- Detailed Validation Packages
- Proven Quality Control Management System
- ASME & National Board Stamps – U, PP, R
- Pressure Vessel Installations and Code Repair
- WBE, Women Business Enterprise
- ESOP, Employee Owned
- 3rd Generation – Family operated

### Past Performance

**Lyophilization Service of New England, LSNE – Bedford, NH - $250,000.00:** Fraser’s Process Division completed process piping for Clean Steam and Water for Injection (WFI) systems for a life sciences laboratory expansion.

- Intricate expansion of an existing, occupied first floor
- Installed within 3 months – fast paced schedule
- Systems installed: WFI generation Still, Clean Steam Generator, Plant steam boilers, Pumps, HW/CHW/CW piping systems, start-up and commissioning

*Reference: Steve Freitas, SPEC Engineering and Construction – 781.221.0123*

**MIT Lincoln Labs – Westford, MA - $118,000.00:** At the Lincoln Space Surveillance Complex, one of MIT’s state-of-the-art facilities, which comprises of three major radars that specialize in the overall space surveillance mission for service to our nation, Fraser furnished and installed piping for a hydrostatic bearing system that supports a 120 ft diameter radar antenna.

- Maximum allowable oil pressure is 1900psi
- Fraser Engineering performed the layout of the piping distribution network and assisted with the system start-up
- Systems installed: 24 Stainless Steel Control panels, multiple 15 ft diameter Stainless Steel supply manifolds located 45 ft above the antenna pedestal floor and all associated hydraulic supply and return piping, tube sizes varying in size from 3/8” through 1 ½” JIC flared and 2” through 3” GTAW welded

*Reference: Vincent Fusco, MIT Lincoln Labs – 781.981.5500*

**Praxair Inc. – Tewksbury, MA - $376,000.00:** Fraser’s crew assembled a large scale vapor recovery module at Praxair’s Liquid CO2 Distribution and Storage Facility in Tewksbury, Massachusetts. Fraser Engineering acting as the General Contractor on this project contracted and oversaw excavation and civil contractors as well as Thermal Insulation and Rigging Contractors.

- Welded and installed Ammonia piping systems, 100% non-destructive tested
- Fabricated and installed all large structural support elements for this project in house.
- Designed and installed remote operated Safety Shower System including all associated electrical and controls
- Layout and installation of all stainless steel control and instrumentation tubing.

*Reference: Manuel Sanchez, Praxair – 630.729.4558*

**Biogen Idec, Inc. – Cambridge, MA - $300,000.00:** Fraser Engineering has been selected to provide two skid based RO water distribution systems. The project is a semi design/build project and includes integration into the existing building utility loops. Fraser Engineering’s responsibilities included MEP, Controls and FAT/SAT.

- Skid design, equipment selection and layout
- Orbital welded and passivated piping systems
- Allen Bradley Process logic including local HMI

*Reference: John Kelliher, Biogen Idec – 617.679.3839*