Tighe & Bond is a full service engineering firm that offers a wide variety of services to our clients. As the demand for mechanical, electrical, and plumbing engineering services has grown, we have expanded our staff and technical offerings. The following is a list of representative project types and the wide variety of services we can provide.

**Project Types**
- Education
- Dormitories
- Healthcare Facilities
- Industrial, Commercial, and Multi-Family Residential
- Office Buildings
- Renewable/Green Energy (Solar, Wind, Hydro-electric, Fuel Cell, Biomass)
- Research and Pharmaceutical Labs and Buildings
- Water and Wastewater Facilities
- Food and Beverage Facilities
- Underground Parking Garages

**Our Design Experience Features:**
- Building Energy Modeling for LEED Compliance
- AutoCAD MEP, Revit, and NavisWorks
- Conditions Assessment and Equipment Evaluation
- Construction Feasibility, Sequencing, and Coordination
- Design/Build or Design/Bid/Build
- Employee Training Services (NFPA 70E)
- LEED Documentation
- Life Cycle Cost Analysis
- Master Planning
- Opinion of Probable Cost and Value Engineering
- Permitting and Rebate Applications
- Startup Assistance

**Heat, Ventilation, and Air Conditioning**
- High Performance Systems & Sustainable Design
  - Heat Recovery Systems
  - Dedicated Outdoor Air Systems
  - Combined Heat Power
- Building Ventilation Systems
- Hot Water and Steam Heating Plants
- Chilled Water Plants
- Dehumidification Systems
- Instrumentation and Control Systems
- Variable Refrigerant Flow System Design
  - Mitsubishi Electric Certified Designers

**Electrical**
- Medium and Low Voltage Distribution
- Cogeneration and Combined Heat & Power
- Construction Management
- Fire Alarm Systems
- Generator Design (Emergency and Standby)
- Grounding and Lightning Protection
- Lighting, Photometric Calculations and Control Systems
- Control Systems
  - System Integration and PLC Programming
  - Instrumentation and Controls
  - Power Distribution Systems
  - Security, Card Access, and CCTV
  - System Troubleshooting (Code and Field Wiring)
  - Tel/Data and Computer Networking
- NFPA 70E Compliance System
  - Electrical Safety and Arc Flash/Coordination Studies

**Plumbing**
- Legionella Risk Management for Building Water Systems
- Domestic Systems (Hot Water Production, Hot and Cold Water Distribution)
- Sanitary Drainage Systems
- Storm Water Systems
- Process Systems
- Emergency Eyewash and Shower Stations

**Fire Protection**
- Performance Specification for Fire Protection Systems
  - Wet Pipe
  - Dry Pipe
  - Pre-action
  - Deluge
  - Clean Agent
  - Sprinkler Service Entrance Design
  - Rise Layouts
  - Fire Pump Layouts
  - Sprinkler Head Layout Plans

**Utility & Process Systems**
- Combustion Calculations
- P&ID, Instrumentation and Controls
- Pipe Sizing and Pressure Drop Analysis
- Pump Upgrades
- Steam, Compressed Air Generation, and Distribution
- Thermal Calculations

For more information:
Michael A. Toto
MEP Group Manager
Ph: 413.572.3218
MAToto@tighebond.com

www.tighebond.com