



Plumbing engineering is fundamental to the performance of healthcare, education, and research facilities. By integrating architecture and engineering from the start, we deliver systems that are efficient, reliable, and aligned with the end-user experience.

We work closely with clients, facility maintenance, and project teams to deliver plumbing designs that align sustainability, performance, and ease of maintenance. From early project planning through construction, our engineers flush out all aspects of design to deliver impactful designs that comply with all regulatory requirements.

For healthcare facilities, we design life critical and emergency systems to ensure uninterrupted service delivery for facilities and patient care. Medical gas systems are coordinated with users to support operational needs while domestic water and fuel-gas systems are designed with redundant non-stop service in mind.

For higher education and research facilities, we design laboratory gas and critical water systems to support the development and growth of new technologies, drugs, and devices focused on improving lives. We tailor our designs to consider environmental impacts and design acid neutralization, decontamination, and grease waste systems to protect public utility systems.

At BSA, engineering is driven by a singular purpose: improving lives. Through sustainable water system design, life-saving medical gas infrastructure, and high-purity water systems that enable sterilization and innovation, BSA delivers solutions that support healing environments and advance future technologies.

PLUMBING SYSTEM DESIGN

- Medical Gas Systems
- Fuel Oil, Propane, & Natural Gas Systems
- Laboratory Gas Systems
- Domestic water & Pure Water Systems
- Sanitary, Vent, Storm, Condensate, & Acid Waste Systems
- Plumbing Fixture Selection and Coordination

PLUMBING SERVICES

- Existing systems evaluation and balancing
- Master planning – new and existing systems
- Energy performance studies
- Construction documents preparation
- Construction administration
- Owner's standards development
- Post-occupancy systems evaluation
- Sustainability consulting and design