PLUMBING ENGINEERS are a vital part of design/build construction teams for residential, commercial, and industrial facilities. They interact with other construction trades to provide building owners with efficient, functional, and sustainable plumbing systems that protect the health, welfare, and safety of the public and prevent environmental contamination.

WHAT IS A Plumbing Engineer?

PLUMBING ENGINEERS are highly skilled individuals involved in many different aspects of the design/build process, including:

- Domestic water systems
- Wastewater
- Fuel gas
- Medical gas & vacuum
- Compressed air
- High-purity water
- Fire suppression
- Chemical waste
- Rain & stormwater systems
- Venting
- Site & building drainage
- Water efficiency

WHAT DO PLUMBING ENGINEERS DO?

PLUMBING ENGINEERS use the principles of fluid flow along with engineering calculations to design plumbing systems that transport fluids and gases throughout buildings. Those systems include:

- Domestic water systems
- Wastewater
- Fuel gas & vacuum
- Medical gas
- Compressed air
- High-purity water
- Fire suppression
- Chemical waste
- Rain & stormwater systems
- Venting
- Site & building drainage
- Water efficiency

WHAT DOES THE PROFESSION ENTAIL?

PLUMBING ENGINEERS are highly skilled individuals involved in many different aspects of the design/build process, including:

- PLUMBING SYSTEM DESIGN
- COMMISSIONING
- PROJECT MANAGEMENT
- CODE & STANDARD EXPERTISE
- CONSTRUCTION ADMINISTRATION
- FORENSIC & SUBSURFACE SYSTEM EVALUATION
- BUILDING INFORMATION MODELING (BIM)
- COST ESTIMATION
- PRODUCT & SYSTEM SPECIFICATION
- PROBLEM SOLVING

PROTECTING PEOPLE & THE ENVIRONMENT

PLUMBING ENGINEERS help eliminate many of the threats that sicken people and harm the environment on a global scale by:

- Delivering safe drinking water & sanitation systems
- Combating groundwater contamination & depletion
- Preventing waterborne diseases
- “Through their designs, plumbing engineers affect every life.”

THEY DO THIS USING THEIR KNOWLEDGE OF:

- Piping material selection
- Water reuse systems
- Innovative technologies
- Backflow prevention
- Innovative technologies
- Water & fuel conservation strategies

HOW TO LEARN MORE

To discover ASPE and find local contacts, visit: aspe.org

Connect with Us