American Water Works Association

Water Career Clusters Map

Career Clusters

A grouping of occupations and broad industries based on commonalities. The sixteen career clusters provide an organizing tool for schools, small learning communities, academics, and magnet schools and linked to career and technical education.

Clusters

Pathways

Architecture and Construction

Designing, planning, managing, building and maintaining the built environment

- Design and Pre-construction
- Construction
- Maintenance Operations

Science, Technology, Engineering and Mathematics

Planning, managing, and providing technical services

- Engineering and Technology
- Science and Math

Agriculture, Food & Natural Resources

Planning, processing, marketing, distribution and financing of agricultural commodities and resources

- Power, Structural and Technical Systems
- Natural Resources Systems
- Environmental Service Systems

Source: State Career Clusters Initiative, http://www.careerclusters.org

American Water Works Association

Water Career Clusters Map

Clusters

Pathways

Architecture and Construction

Design and Pre-construction:
- Environmental Engineer
- Environmental Engineering Technician
- Electrical Engineer
- Electrical & Electronic Engineering Technician
- Mechanical Engineer
- Civil Engineer

Construction:
- Plumber
- Technician

Maintenance Operations:
- Electrician
- Plumber
- Wastewater Maintenance Technician
- *Water Maintenance Technician**
- *Maintenance Mechanic**
- *Maintenance Manager**
- *Instrumentation* Technician*
- *I&C Technician**
- *SCADA Technician**
- *GIS Technician**

Science, Technology, Engineering and Mathematics

Engineering and Technology:
- Civil Engineer
- Electrical Engineer
- Mechanical Engineer
- Water Treatment Engineer
- Environmental Engineer
- Electrician
- Electronics Technician
- Project Engineer

Science and Math:
- Biologist
- Chemist
- Conservation Scientist
- Hydrologist
- Laboratory Technician
- *Microbiologist**

Agriculture, Food & Natural Resources

Power, Structural and Technical Systems:
- Electronics Systems Technicians
- Waste Water Plant Operator
- *Water Plant Operator**
- *System Operator**
- *High-Tech Operator**
- *Plant Operator**
- *Collection Operator**
- *Industrial Waste Operator**

Natural Resources Systems:
- Water Monitoring Technician
- Hydrologists
- Watershed Manager

Environmental Service Systems:
- Environmental Sampling and Analysis Scientists/Technicians
- Water Environment Manager
- Water Quality Manager
- Waste Water Manager
- *Environmental Manager**
- *Conservation Manager**

Recommended additions in Italics that could be added.

Source: State Career Clusters Initiative, http://www.careerclusters.org