

## Original Equipment Manufacturer (OEM)

### Filters

- ✓ Sand, Multimedia, Carbon, and Iron Removal (Greensand)

### Demineralizers

- ✓ Water Softener, Cation, Anion, Mixed Bed, Packed Bed, Layered Bed, Counter Flow Exchangers, Metal Removal, Arsenic, Perchlorate, and Condensate Polisher Systems

### Membranes

- ✓ Microfiltration, Ultrafiltration, Reverse Osmosis, Softening, Degasification

### Electrodeionization

- ✓ Both Stack and Module Units

### Biological Processes

- ✓ Membrane Bioreactor, Immobilized Cell Bioreactor, Trickle Filter, Fixed Film, Suspended Growth

### Ancillary Equipment

- ✓ Brine, Potassium Permanganate, Acid, and Caustic Regeneration Skids; pH Adjustment; Force Draft Aerators; Vacuum Degasification Towers; Membrane Degasification; Waste Neutralization Systems; Bulk Chemical Systems; Chemical Feed Systems; Bag Filters; Micron Filters; Tubular Filters; Clarifiers; CIP and Pump Skids; Organic Reduction Systems; Oil/Water Separators

## Unique Process Solutions

### Design/Build Operate

- ✓ Provide on-site operation and ownership of the system after installation

### Equipment Enhancement

- ✓ Working with OEM to design and develop standardized production equipment skids

### Standard Products

- ✓ **WTModules™** complete standardized production equipment skids

### Waste Water Recovery System

- ✓ Resolve tough wastewater recover/reclaim systems for industrial applications

### WTMobile™/Containerized Products

- ✓ Provide mobile/containerized solutions for each of its product lines

### Heavy Metals Removal/Remediation

- ✓ Technologies for metal removal include electrocoagulation, iron injection, and media-based solution

### System Validation

- ✓ Review operating systems and provide recommendations to improve their efficiency





## Markets Served & Applications

### Power/Cogeneration Industry

- ✓ Boiler Feed Water, Condensate Polishing, Water and Wastewater Recycling, Waste Neutralization, Oil/Water Separators

### Semiconductor

- ✓ Boiler Feed Water, High Purity Water (HPW), Ultra-High Purity Water (UPW), Water & Wastewater Recycling, CMP Waste, Waste Neutralization, Oil/Water Separators

### Pulp & Paper, Chemical/Petrochemical

- ✓ Boiler Feed Water, Condensate Polishing, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

### Pharmaceutical/Biotechnology

- ✓ Purified Water, WFI Water, Boiler Feed Water, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

### Hazards/Explosives Processing Equipment

- ✓ Media Filtration, Neutralization, Recycling, Tanks, Pressure Vessels (designed and fabricated for hazard/explosive processing applications)

### Food & Beverage, "Fresh Cut"

- ✓ Recycle Water & Wastewater Recycling into Potable/Sanitary Water, Water Softeners, Cold Systems (no heat)

### Drinking Water

- ✓ Make-up Water, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

### Industrial Water & Wastewater

- ✓ Water & Wastewater Recycling, Iron Removal, pH Adjustment, Oil/Water Separators

### Groundwater Remediation

- ✓ Chromium, Arsenic, Perchlorate Removal

### Municipal Water & Wastewater

- ✓ Water Treatment, Water & Wastewater Recycling, Iron Removal, pH Adjustment, Oil/Water Separators

### Organic Destruction

- ✓ Utilizing Chlorine, Ozone, Ultraviolet, and Chemical Oxidation Processes

### Zero Liquid Discharge

- ✓ Chemical & Waste Minimization and Recycling of Water/Wastewater Processes, Oil/Water Separators

## The AVANTech Advantage

- ✓ Custom equipment for all your needs
- ✓ Single source for testing, design, and manufacturing
- ✓ Experienced chemical, mechanical, and electrical engineering staff
- ✓ ASME Code Stamp and UL Certified panels
- ✓ State-of-the-art process automation with PLC system integration
  - ✓ All system components pre-assembled and tested to confirm operation prior to installation at our manufacturing facilities in Columbia, SC; or Knoxville, TN; or Richland, WA
- ✓ Turnkey capability to integrate all treatment systems

