



Professional Engineering Services

Statement of Qualifications





The AQUA Engineering Group

We are the AQUA Engineering Group (AQUA), an assembly of highly-qualified professionals unlike any other. We provide innovative engineering solutions for public and private sector markets nationwide. Our clients look to us for our quality services and our outstanding ability to effectively and efficiently solve complex engineering challenges that achieve sustainable results. AQUA is made up of a team of experienced engineering professionals, leaders, and associates who are experts in their disciplines and fully committed to helping our clients accomplish their project goals while protecting the environment and enhancing the quality of life for the people in our communities. We seek out opportunities to work with others who share our vision for success and promise to give you the best engineering experience possible on every project. Together, we can create a bright and prosperous future.



AQUA Engineering (AQUA) provides innovative engineering, operations, and construction solutions to clients nationwide. Since 1992, we have served the public and private sector. AQUA's proven experience demonstrates our capacity and stability to deliver projects that are sustainable and operable. Our team consists of experienced professionals, designers, programmers, technicians, and associates who are capable of solving your needs and are fully committed to your success. Together, we are able to give you the best project solutions possible. We have offices in Utah and Colorado.

533 W 2600 S Suite 275
Bountiful, UT 84010
801.299.1327

5325 S Valentia Way
Greenwood Village, CO 80111
720.667.1250



SKM Engineering (SKM) was founded in 1989. SKM provides sound and proven electrical, instrumentation and control (EI&C) engineering, along with dependable and prompt service at the best value. The SKM team has the knowledge, training, and hands-on experience required to meet EI&C needs for your facilities. They apply a unique and fresh perspective and are recognized by clients for their ability to solve challenging technical problems quickly with simple and cost effective solutions. SKM provides services for over 100 clients throughout the US and Canada with offices in Utah and Colorado.

533 W 2600 S Suite 25
Bountiful, UT 84010
801.677.0011



Aqua Environmental Services, Inc. (AES) is a division of the AQUA Engineering group, which provides operations consulting, start-up and commissioning services, and instrument calibration to many public and private sector clients. AES has developed a loyal base of clients in need of assistance with contract operations, small turnkey projects, facility management projects, and systems troubleshooting. With its low overhead, AES is able to offer services to many clients that would be difficult to provide with in-house staff, or in the case with small systems, with what would be costly full-time employees.

89 Monarch Dr
Bountiful, UT 84010
801.694.9106

AREAS OF EXPERTISE

Innovative Solutions and Advanced Technologies

We specialize in providing engineering solutions that address emerging market challenges and help our clients succeed at achieving their specific project goals. We work closely with our clients to fully understand their needs and deliver the greatest impact for their investment. The qualifications presented display our firm's capabilities in providing quality and reliable services to our clients. AQUA's principal engineers and project managers take a hands-on approach in overseeing projects from initial planning and funding through final design and construction to ensure that our work is finished on time, within budget, and complies with the highest standards.



Water & Wastewater Treatment



Municipal Services



Water Resources



Construction Services / Alternative Delivery



Asset Management / Master Planning / GIS



Resource Recovery / Renewable Energy



Water & Wastewater Treatment

AQUA delivers cost-effective, innovative solutions in the areas of Water and Wastewater Treatment; from master planning and feasibility studies to complete engineering design and construction management services for both public and private facilities. AQUA's experience in water and wastewater treatment engineering goes well beyond textbook designs and is based on decades of troubleshooting treatment facilities, talking with operators, and providing innovative solutions that can be easily commissioned and operated. With hundreds of successful projects, we have the experience that rivals much larger, nationwide firms. Our designs focus on resource recovery by reusing treated effluent for industrial and municipal needs, and reclaiming biosolids and nutrients for use in the agricultural and landscaping sectors. With the goal to conserve our valuable resources we have implemented cutting edge technologies such as Membrane Bioreactors (MBR), Integrated Fixed Film Activated Sludge (IFAS), Granular Sludge, nutrient removal using algae, advanced anaerobic digestion technologies, nutrient recovery technologies, and biosolids to fertilizer processes. Our water treatment plant designs utilize the latest in membrane processes, taste and odor control equipment, and advanced disinfection systems.

Our capabilities in Water & Wastewater Treatment include:

- Master Plan Development
- Facility Planning and Funding
- Pilot System Design and Operation
- Process Evaluation and Selection
- Facility Design
- Plans & Specifications Development
- Bidding Services
- Construction Observation and Management
- Commissioning
- Discharge Permit Applications and Renewals
- Environmental Compliance
- Water Reuse
- Biosolids Management
- Energy Efficiency Studies
- Operations Training
- Operations Manual Development
- Operations Troubleshooting
- Industrial Pretreatment Programs
- Permit Violation Mitigation
- Treatment Plant Siting



Hyrum City Water Tank



Bennett Wastewater Treatment Facility



Municipal Services

Each city, county, and service district has its own unique challenges as it strives to meet the needs of its rate payers. Our goal is to learn and become familiar with these challenges and to find solutions that best fit your circumstances and operations. We listen to your ideas and needs instead of imposing our solutions on you. AQUA has established a reputation for designing municipal infrastructure and facilities that are maintenance friendly and cost effective. In need of project funding? Our staff has experience securing project funding from many federal and state and private agencies. Let us help you solve your infrastructure challenges.

Our capabilities in Municipal Services include:

- Mapping & Modeling Utilities
- Master Planning
- Road Systems Design
- Construction Standards Development
- Construction Specifications
- Water Resources
- Solid Waste Disposal Landfills
- Transfer Facilities
- Capital Facility Planning and Impact Fee Analysis
- Subdivision & Land Development
- Environmental Compliance
- Parks & Recreation
- Streets & Boulevards
- Storm Drainage Systems
- Sewer Collection
- Water Distribution and Storage
- Grants and Loans Applications



Water Resources

We provide water resources solutions for cities with water supply, irrigation, water control, and waste disposal needs. Our engineers have the expertise to deliver consulting services that best use resources and provide the data and insights for conserving and distributing water resources to communities.

Our capabilities in Water Resources include:

- Water Quality Studies
- Master Plan Development
- Facility Structure Design
- Groundwater Development
- Spring Development
- Water Rights
- Transmission Pipelines
- Water Storage
- Water Source Protection
- Groundwater Hydrology
- Water Conservation Plans
- Distribution Systems
- Booster Pumping
- Irrigation/Secondary Water



Construction Services / Alternative Delivery

AQUA has provided construction management and observation services for many municipal and private projects throughout the western United States. In addition, we have also delivered projects to our clients using alternative delivery methods such Construction Management General Contractor (CMGC) or also called Construction Manager at Risk (CMR). The level of service is tailored to the requirements and needs of our clients. AQUA can provide project bidding services, submittal / shop drawing review, contractor pay request review, and conduct project coordination and progress meetings. AQUA can also provide project inspection, quality control, and specification compliance services. AQUA believes in resolving project construction issues in a timely manner, saving both the owner and contractor time and money. As the owner’s agent, we can also deliver projects utilizing alternative delivery methods to save time and money according to project needs.

Our capabilities in Environmental Services include:

- Construction Management and Observation
- Inspection Services
- Commissioning
- Construction Oversight
- Constructability Review
- Construction Estimates
- Alternative Delivery Methods
- Dispute Resolution



Asset Management / Master Planning / GIS

We design, implement, and deliver real-world asset management, master planning, and GIS solutions. These tools help infrastructure owners and operators collect, analyze, and share critical business information for reaching optimal performance of their facilities and getting more resilient and sustainable infrastructure. Additionally, these tools assist infrastructure owners in managing long term infrastructure as they prepare for future needs and improvements.

Our capabilities in Municipal Services include:

- Geographic Information Systems (GIS)
- Computerized Maintenance Management Systems (CMMS)
- Systems Architecture
- Software Integration
- Spatial Analysis
- Strategic Planning
- Technology Implementation
- Asset Condition Assessment Risk Determination
- Maintenance Planning
- Land Use
- Zoning
- Transportation
- Recreation
- Environmental
- Historic Preservation
- Municipal Land Use Ordinance Development
- Development Review
- Annexation



Resource Recovery / Renewable Energy

Natural resources are precious and limited. Using them wisely, and reclaiming or recovering them for reuse is essential for the continued habitation of our planet. Besides incorporating energy efficient designs, we also incorporate technologies into our designs that allow us to harvest energy from sources that would typically be wasted. Our list of projects is extensive, including the design of waste to energy projects that produce methane gas from municipal bio-solids, animal manure, and food wastes to generate both heat and power. We understand both state and federal programs that provide enhanced payments for renewable energy from waste products. Recently, solar energy has become part of many of our projects. In a recent project we turned biosolids into a fertilizer that is air spreadable. We have incorporated nutrient recovery systems into our designs to recover both nitrogen and phosphorus.

Our capabilities in Resource Recovery include:

- Nutrient Recovery
- Biosolids Reuse
- Water Reuse
- Manure to Energy
- LCFS / RIN Markets
- Green Gas Markets
- Biosolids Solar Drying
- Advanced Anaerobic Digestion Technologies
- Biosolids to Fertilizer Facilities
- Energy Efficiency Studies
- Nutrient Recovery using Algae
- Food Waste to Energy
- Photovoltaic Solar Panels

Manure to Energy

AQUA provides Renewable Energy and Resource Recovery Solutions for Dairy Farms all across the country. We have a complete set of solutions that can be tailored to meet your specific needs and give you the most impactful and sustainable results. We utilize advanced technologies in our designs to help you modernize your farming processes, improve your facilities, and prepare for future agricultural challenges.

Bio-Solids Management

AQUA designs systems and provides services that help you manage your manure resources to efficiently capture and convert bio-solids that can be sold as renewable energy.



Dairy Renewable Natural Gas



Fair Oaks Resource Recovery Facility

Quality Service from a Team Fully Committed to Your Success

Our team has what it takes to successfully solve complex engineering challenges that are unique to your economic, environmental, and operational objectives. Our Principal engineers take a hands-on approach in overseeing projects from initial planning and funding through final design and construction to ensure our work is finished on time, within budget, and complies with the highest standards. Our attention to detail and innovative approach gives you the most value for your investment. We are well known for providing top-rate quality services with minimum overhead and competitive fees.



L. Scott Rogers, PE | Principal
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Over 38 years of experience as a civil engineer, primarily in water and wastewater treatment.



Brad Rasmussen, PE | Principal
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Over 28 years of engineering experience, with the majority spent in the design and project management of wastewater treatment facilities for municipalities and industry.



Justin Logan, PE | Principal
justin.logan@aquaeng.com | 801.683.3723

Over 13 years experience in engineering, during which he has been involved in a wide variety of engineering projects, mostly with wastewater treatment facilities.



Darin Hawkes, PE | Principal
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Vast amount of experience in various civil engineering disciplines.



Bob Frachetti, PE | Principal
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Over 29 years of project management and technical experience in virtually all areas of water and wastewater engineering including facilities planning, permitting, design, construction,



Boris Petkovic, PE | Principal
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Nearly a decade of experience in water resources and wastewater engineering with a focus on wastewater treatment facility design.

PROJECT EXPERIENCE

Extensive Project Experience

Over the years, we have been given the opportunity to work on major engineering projects and have gained extensive experience with the processes and technologies necessary for completing the work effectively and efficiently. We value the trust and confidence that our clients have in us and look to extend our successful track record of designing and building new facilities and improving and upgrading the performance of existing facilities for many years to come. For decades, we have consistently demonstrated our capabilities to provide excellent engineering services that make a difference for our clients and communities. Each client project tells a unique story and demonstrates our capabilities and expertise to provide you with excellent engineering.

AQUA Project Sites



For nearly 3 decades, we have helped our clients, big and small, complete thousands of infrastructure engineering and community projects. We are recognized as the top engineering solutions provider because of how well we are able to meet unique project needs, stay on-schedule and within budget, and achieve innovative results.

Proven Ability to Get Results

Our extensive experience in engineering is key to how we efficiently and effectively complete complex engineering projects. We value the trust and confidence that our clients have in us and look to extend our successful track record of designing and building facilities that perform at the highest level. For decades, we have consistently demonstrated our ability to provide engineering results that make a difference for our clients and communities.



Orem WWTF



GTWN WWTF



Springville STM Aerotors



Wasatch Resource Recovery



Tooele Solar Drying



Wolf Creek Water



INNOVATIVE ENGINEERING SOLUTIONS

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