

ENGUINITY SYSTEMS, LLC

Mechanical Engineering Professionals

Woman-Owned, Small Business | King County Small Contractor and Supplier



Willow Park
Spray Park



ENGINUITY SYSTEMS, LLC

was established in 2008 with the drive to deliver high-quality projects through the efficient application of innovative engineering methodologies for HVAC and plumbing design.

Over the years we have established ourselves in many markets through the merit of our engineering and collaborative processes. Internally, our company culture encourages individual development in a team environment. All staff members are allowed the flexibility to take on a variety of responsibilities. In a small business, this limberness enables staff to apply their entire skill set to company objectives, promoting efficiency and greater project capacity.

Above all else, we take pride in our ability to achieve successful project outcomes as result of consistent communication with all of our design partners. Working closely with facility owners and representatives we have found many great benefits and we look forward to continuing this tradition with your project.



- HVAC DESIGN & ENGINEERING
- PLUMBING DESIGN & ENGINEERING
- SYSTEMS &ENERGY ANALYSIS
- VENTILATION APPLICATIONS
- LEED CERTIFIED DESIGN
- VARIABLE REFRIGERANT FLOW SYSTEMS
- BUILDING INFORMATION MODELING
- AQUATIC SYSTEMS
- HYDRONIC SYSTEMS





POOLS & NATATORIUMS

often represent the heart of recreational spaces and serve as a social hub for the surrounding community. It is our mission to strengthen that relationship by creating and restoring pools with the high-level of design required to produce comfortable, efficient, and attractive environments.

Our design achievements relating to pools and natatorium environments come from our continued efforts to incorporate innovative technologies and sustainable design principles within the client's guidelines. This degree of collaboration that is vital to the complete understanding of what is required for the success of each unique project.

Enginuity has enjoyed working with public and private entities to produce exceptional pool designs. When asked to provide engineering services for the Weyerhaeuser King County Aquatics Center, Enginuity worked closely with county officials to meet deadlines that would affect the busy swim season. As with any aquatic project, we understood the impact this facility has on the community and set goals to effectively return it to working order for the people who rely on it's continued presence.



From left to right: Stewart Heights Pool, Center at Norpoint Pool, Julius Boehm Pool





WARNING

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The Lindbergh Pool, built in the 1970's, underwent extensive renovations after being acquired by the Renton School District in 2008. Enginuity provided design for the replacement of the entire mechanical system in the building (HVAC, plumbing, and pool water system). When designing for the pool, the new air handling, pool water systems, and hybrid boiler system were engineered around best practices in energy efficiency.





SPRAY PARKS have been built for decades but the demand for their inclusion in northwest parks has been increasing. The parks entice visitors of all ages to interact with an ever growing variety of spray features that have the ability to shoot, pour, mist, and splash.

The engineering and design of spray parks is a specific area of expertise for which Enginuity has become known. We have participated in the design of numerous parks in the Pacific Northwest, including many in and around Seattle and Tacoma.

The South End Recreation and Adventure (SERA) campus was one of the more substantial spray park designs Enginuity provided for Metro Parks Tacoma. It was designed to utilize a recirculating water system with one of the largest water flow rates in the region.

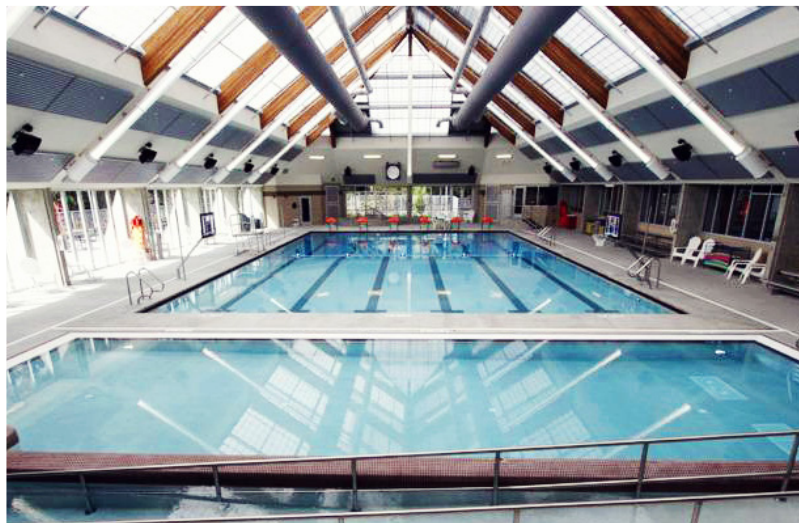
Enginuity was also happy to provide designs for the Angle Lake spray park. The park's Megasoaker dumping bucket is the highlight of this exciting aquatic play experience, pouring 55 gallons of water on park users. All of the water features are fed by a single-loop water treatment and circulation system, ensuring the best water quality and user safety possible.

*Titlow Park
Spray Park*



Left to right: SERA Spray Park on opening day, SERA Spray Park mechanical room

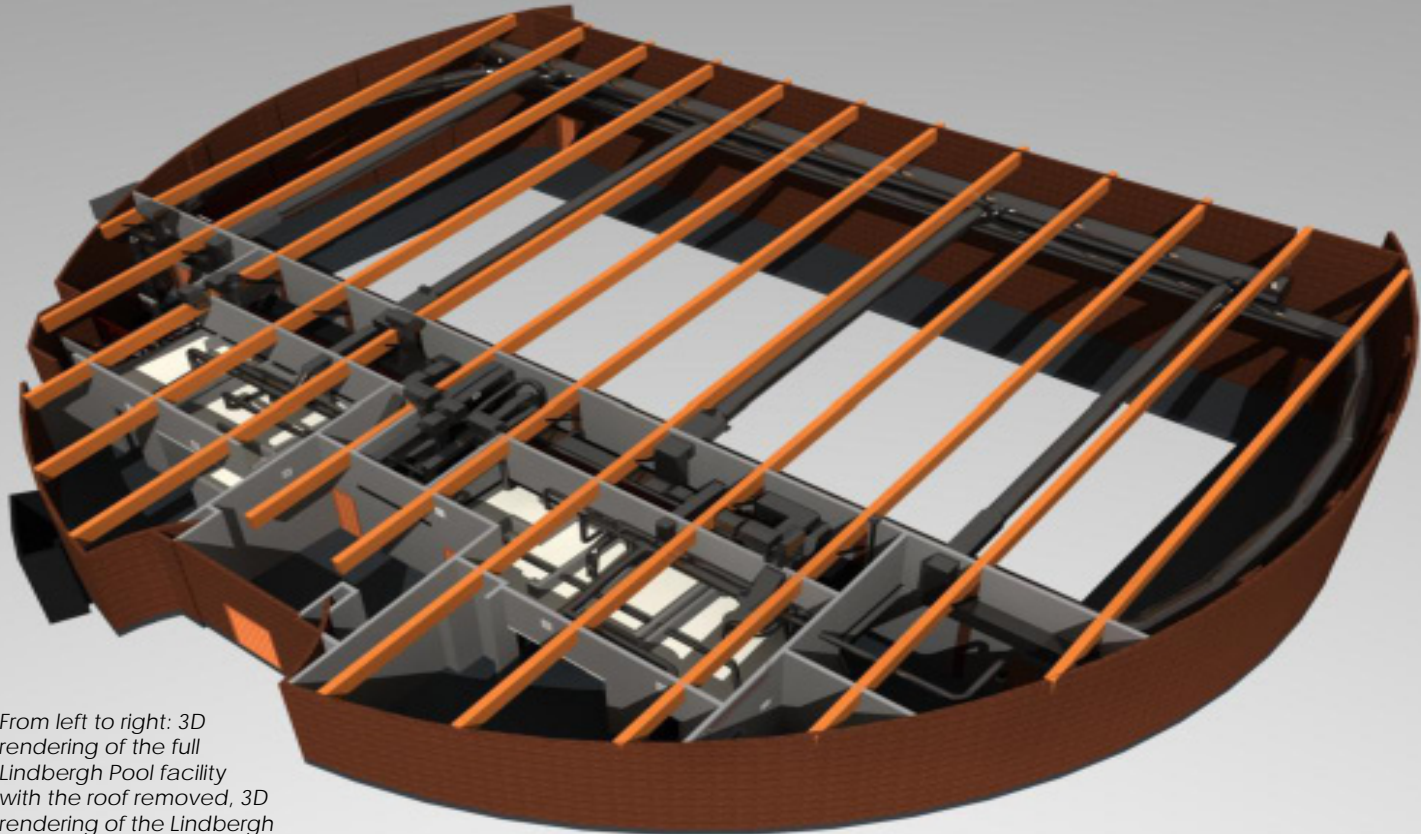






*Clockwise from left: Titlow Park Spray Park,
Angle Lake Spray Park, Heritage Fountain,
Lynnwood Recreation Center*





From left to right: 3D rendering of the full Lindbergh Pool facility with the roof removed, 3D rendering of the Lindbergh Pool boiler room

BIM FOR EFFICIENCY IN DESIGN

Engenuity has a proud history of meeting client expectations. There is no singular method that accounts for our record of success. Rather, our team relies on collaboration, management experience, and technical expertise. In particular, the teams's utilization of Building Information Modeling (BIM) capable software has greatly enhanced the coordination of recent projects.

The images featured on this page represent the design process of the Lindbergh Pool project. In order to address the redesign of HVAC systems located in an overcrowded mezzanine, a 3D model was built in-house. The model allowed designers to place systems efficiently with a complete understanding of how they would impact the space. The resulting construction freed up considerable space and allowed maintenance crews the ability to reach areas which were previously inaccessible.





Top: A view of the mezzanine that housed the mechanical systems for the Lindbergh Pool before the redesign. Crowded HVAC and plumbing equipment blocked maintenance crews from accessing equipment.

Bottom: The same view of the mezzanine mechanical systems as above, after the completed construction of Enginuity's design.





A 3D rendering of mechanical systems in the mezzanine created by Enginuity to determine the most effective layout options.







Clockwise from left: Marshall Pool, Tivoli Fountain, Kimbro Pool, Titlow Park Spray Park





JAMIE VINYARD
Principal, CEO
ph. 253.292.0357 ext. 120
jamie@enginuitysys.com

FRANCIS MASOTTO
Associate Principal, Project Manager
ph. 253.292.0357 ext. 121
francis@enginuitysys.com

JESSE BARKSDALE, LEED-AP
President
ph. 253.292.0357 ext. 112
jesse@enginuitysys.com

STEVE BALDRIDGE, PE
Project Engineer
ph. 253.292.0357 ext. 128
steve@enginuitysys.com



enginuity
systems LLC

732 Broadway, Suite 102
Tacoma, WA 98402
www.enginuitysys.com