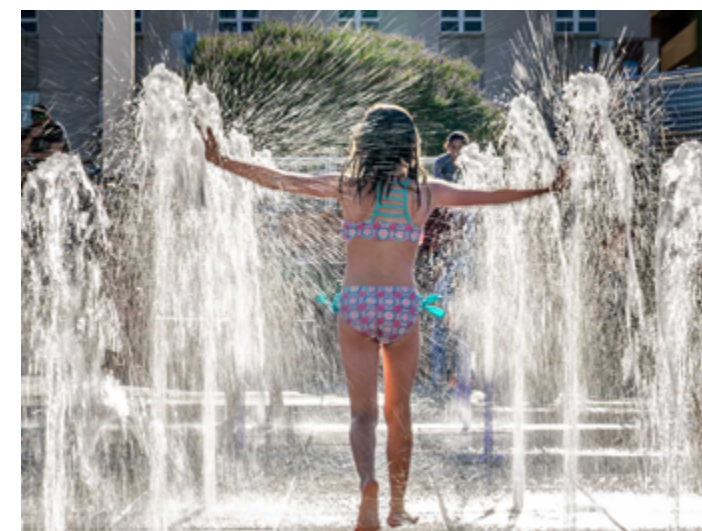


Water

creating stunning public spaces

ATLANTIS
liquid dynamics





Water is synonymous with life; it underpins our survival and provides the common elemental link we share with all life on earth.

Throughout history, fountains have been an essential part of every human settlement; as a source of life-sustaining water, a place to gather and reflect and a place to experience beauty and culture.

Today, water features are a symbol of grandeur, providing stunning public places for people to gather and re-discover their connection with the natural elements.

But the benefits of water extend far beyond open, public space. Indoors, water features can act as a natural air filter, serving as a natural, cost effective dehumidifier, while also naturally cooling the surrounding area.

And the benefits don't end there. The flow of water and its interaction have been well documented to have healing effects on the mind and body. Water is a popular component of healing gardens and recovery centres for many hospitals, where patients and carers alike can use it to escape from the strain and toil of treatment.

With its strong elemental force, the sound of water's impact on a surface evokes feeling. It can be musical, it can be calming, it can create an immersive background symphony that adds yet another sensory dimension to the space.

No design medium has as profound an effect on people as water does. It attracts them, it entertains them, it soothes them. Water is one of the best design mediums to use to attract people, to draw them in to engage with a space and keep them captivated.



ATLANTIS *liquid dynamics*

CREATING WATER ARTISTRY, TOGETHER.

Driven to create Water Artistry, Atlantis Liquid Dynamics is your aquatic specification partner—designing and fabricating beautifully crafted, aesthetically driven water elements that elevate any recreational or civic space.

We're on a mission to reimagine the role of water in the public realm, helping architects, designers, councils and developers bring sculptural water features to life in ways that inspire joy, connection and wonder. With deep local expertise and specification support, we guide projects from concept through to delivery, ensuring every element is as functional and sustainable as it is breathtaking.

Behind the artistry sits engineering you can trust. To deliver the world's most advanced water effects, we source our fountain systems from Crystal in Canada. Since 1967, Crystal has been at the forefront of global fountain design and technology, continually pushing what's possible through dedicated research and development. From precise jets and choreographed lighting to sustainable control systems, their equipment forms the backbone of the most spectacular water features around the world.

When combined with Atlantis' local design expertise and end-to-end project support, the result is a fountain that is both breathtaking and dependable—crafted to thrive in Australian environments and delight communities for years to come.

IN PARTNERSHIP WITH
Crystal
where ideas flow™

© 2025 Atlantis Liquid Dynamics. All rights reserved. This document remains the intellectual property of PARX Recreation Pty Ltd (trading as Atlantis Liquid Dynamics) and is protected by copyright and registered trademarks. No part of this document may be reproduced, distributed or used in any format without express written permission.

By day, interactive sequencing nozzles act as magnets for children and adults alike to play, explore and delight.



After dark, interactive water features transform into mesmerising displays, focal points where people gather to observe the theatrical shows of programmed water and light.

Design

Whether you're designing an interactive water plaza, a calming indoor oasis or stunning outdoor fountain, there are a few key design considerations that are universal in delivering a stunning end result.

VISUAL IMPACT

Features can act as a standout focal point or provide a sense of continuity. They can be calm and serene or dramatic and exciting.

AESTHETIC CONTEXT

Consider the psychological, auditory and safety impact of the water feature within its surrounding environment.

LINE

How will you give direction and movement to the eye to express emotion, distance and establish perspective? Vertical lines can be perceived as more emphatic while horizontal lines can be perceived as calm and pleasant.

MATERIALS

The structural and aesthetic use of glass, stainless steel and other metallics, stone and natural elements can strongly impact design.

FORM

Form occupies a space and volume that is symmetrical or irregular. The more contrasting the shape is from its surroundings, the stronger the visual attraction.

COLOUR

Colours can evoke different emotions and promote calm or arouse thrill or drama.

LIGHTING EFFECTS

White lighting can convey an elegant character, while colour-changing can promote a dramatic and eye-catching show.

MOTION

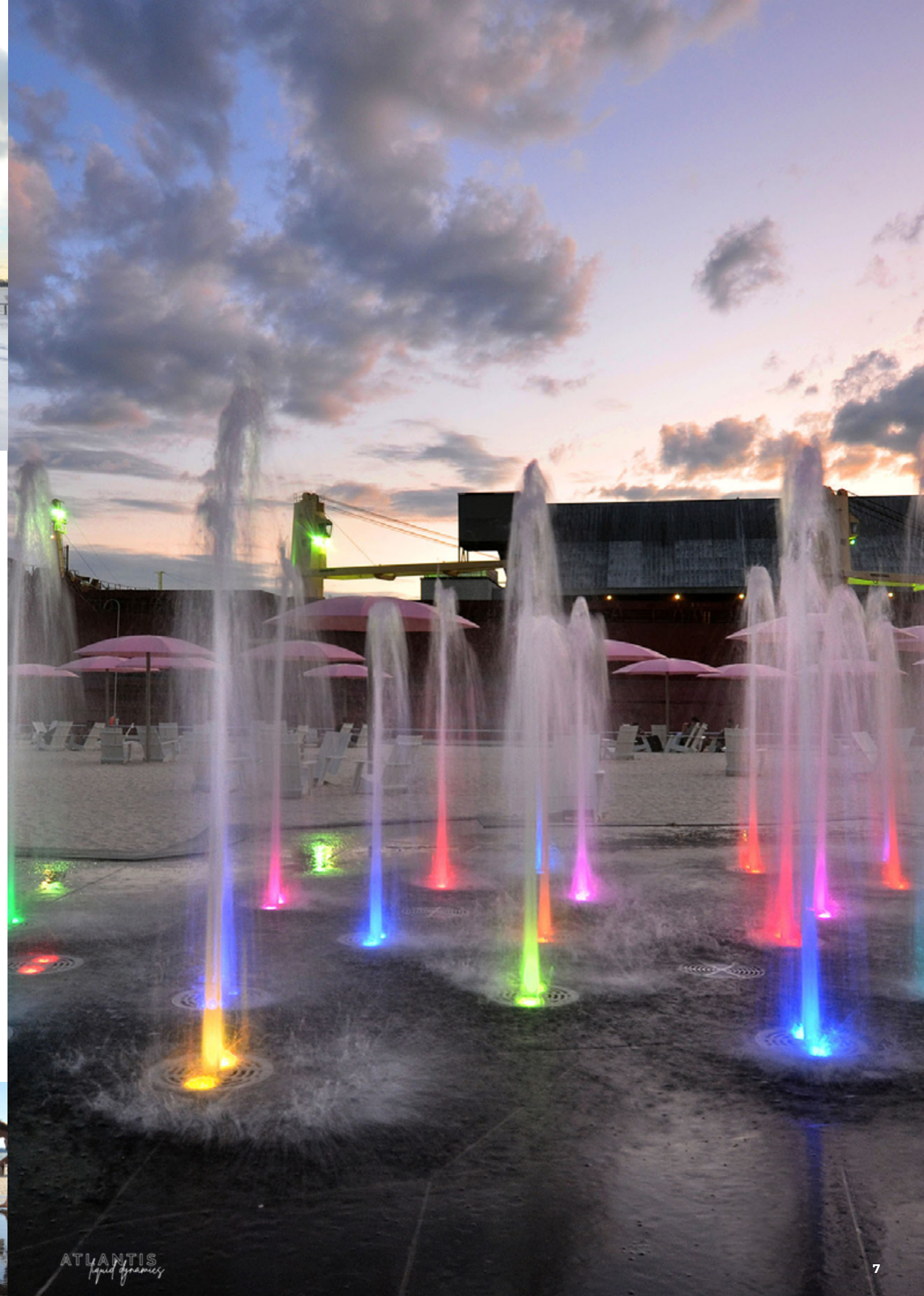
Static water is visually placid. Low flows deliver a serenity through gentle movements. Dynamic water captures the attention of the eye.

SOUND

Water emits sound when it is in motion or strikes a surface. This can act to neutralise unwanted background noise or create a sense of emotional tranquillity.

CHOREOGRAPHY

This is where your vision comes together; proving that the sum is so much more than just its parts. Choreography is the immersive experience you have orchestrated. The interrelationship between the moving water, lighting and materials is where the magic happens.





Interactive

The next iteration in interactive water features for public spaces, water plazas can become a stunning round-the-clock activated entertainment feature.

During the day they act as magnets for children and adults who enjoy playing or watching the activity. After dark, interactive water features transform into focal points where people can congregate and observe vibrant, theatrical shows of programmed water and light.

During inactive periods, such as late at night or during a public event, interactive water features can also be automatically turned off to save energy or repurpose the space, making them a flexible addition to any public area.

Sequenced shows can be created with a combination of LED technology and sequenced nozzle effects that work in harmony to build up climactic, choreographed shows.

HOW INTERACTIVE WATER FEATURES WORK

Interactive water features vary from basic splash parks designed for children's play to more sophisticated multi-use water plazas.

- Nozzles are placed in a flooded deck surround - poured drydeck or suspended deck
- The contained water from the surface is minimal (6mm) and water drains through the deck surround into a holding tank
- Water is pumped to the nozzles via a pumping or water treatment station

Controllers and sequencing devices enhance the experience in an interactive environment. Elements may be turned on or off for a fixed time and can be controlled by the sequencing programmer.



Lighting

With the ability to completely change the look and feel of your feature, there are a number of key lighting design considerations

COLOUR SOURCES

Pure and non-aerated water relies on its environment for colour. The material finishes within a water feature impact its colour as does the lighting you apply.

COLOUR TEMPERATURE

Defined by the warmth or coolness of the light source, some white light technologies are inherently warmer while LEDs are available in a variety of colour temperatures.

WHITE VS. COLOUR

White lighting is particularly effective at evoking an elegant character. Multi-coloured fountains are popularised with the advent of LED lighting and create a more dynamic effect.

COLOUR TYPES

Different colours require more lighting intensity to achieve the desired effects. Amber and turquoise require 50% more intensity than clear lights. Red requires 100% more intensity, while blue and green require 250% more intensity.

AMBIENT LIGHT

Consider any continuous background illumination (natural or artificial) that cannot be controlled. A higher ambient light situation may require a more intense lighting solution.

MOUNTING DEPTH

The challenge with submerged lighting is that it is dispersed through the water. More lumens are required to achieve the same effect as a dry architectural solution.

Materiality

Materials and textures help enrich the visual quality of a water feature. Texture is a layered experience, augmented by the material surface and ambient lighting.

Consider the following textural dichotomies; coarse or smooth? Light or heavy? Fine or dense?

A variety of materials can be used in water feature design although glass, stainless steel and stone are most common.

GLASS

Glass is a unique and versatile material – it's transparent, translucent and reflective. With the ability to be blown or moulded into the desired shape, water is expressed differently depending on the type of glass and lighting used.

STAINLESS STEEL

Stainless steel is often the metal of choice in water feature design due to its corrosion and oxidation resistance, strength and reflective properties. It can be used as a practical element to hide mechanical components or it can be used as a decorative element such as with sculpture and ornate pipework.

STONE

Natural stone has long been used in water features because of its many textures, colours and forms. More organic designs may make use of stone's less refined forms, focusing on the uniqueness of the colour and finish and its ability to develop its own patina over time. Contemporary designs can also incorporate stone, with a more refined stone finish to give higher reflectivity or stronger geometric lines.

TEXTURE

Smooth or coarse textures don't just add to the overall fabric of the design; coarse surfaces can add a safety element in a water environment, providing non-slip footing in pedestrian or play areas. Smooth textures can add another layer of reflection and depth to the space, particularly with black surfaces.



Tools

Crystal's WATERlab is a state-of-the-art 3D simulation software that uses real, physics-based particle collision to simulate real water. It is the first of its kind in the industry.



If a picture is worth *1,000 words*

then a prototype is worth *1,000 meetings*

WATERlab delivers a true simulation rather than an animation. While animation can show you how something may look, a simulation allows the designer to prototype how an idea looks, feels and performs under real world conditions. With this tool in your arsenal, we can further reduce the impacts of splash and wind upon a fountain by optimising its performance in the design stage, prior to construction.

WHAT IS IN A SIMULATION?

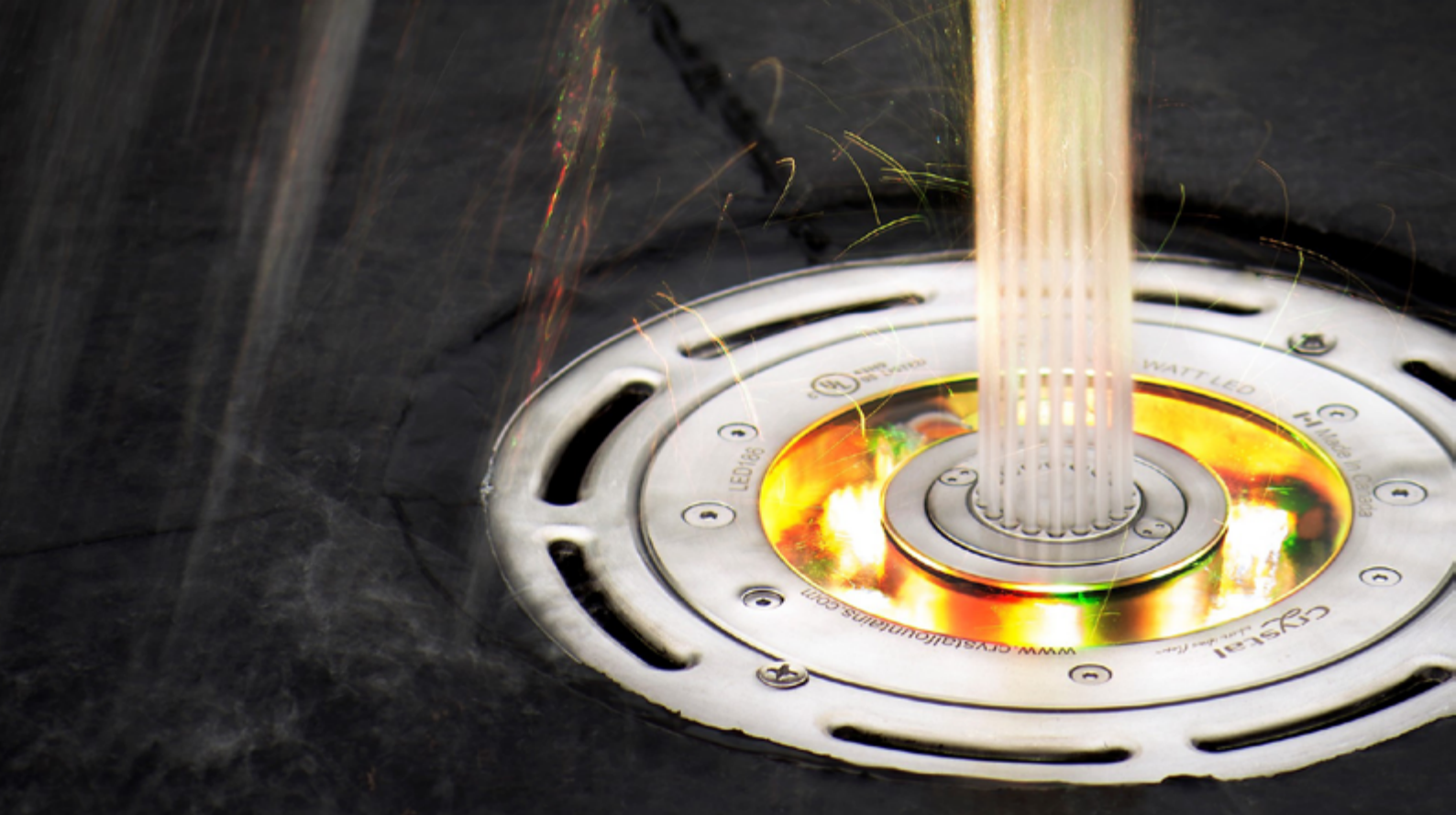
- Water physics model and simulate real water behaviour
- Splash zones predict water collection and pooling
- Collision accurately depicts impacts with physical environment

- Lighting capabilities include modelling illumination and sequencing
- Premium quality visualisations rendered in real-time with fast turnaround
- Fly-throughs and aerials provide a feeling of being in the space

Calibrating a feature's performance beforehand mitigates water loss and saves time and money on future adjustments

WATERlab allows designers to create without fear, giving you an accurate simulation of what your water feature will look like and how it will perform. This reduces risk while amplifying creative potential.





QUALITY PARTNERSHIP

Offering some of the most technologically advanced aquatic feature products in the world, Crystal uses the best quality materials currently available. All Crystal products deliver safe water velocities and operating heights, with a huge range of features, nozzles, sprays and lighting effects to help you create your dream water or lighting feature.

Atlantis Liquid Dynamic's design team is here to help guide you through material considerations, ensuring there are no entrapment issues, all overland flow and infrastructure considerations have been taken into account, and to ensure complete integration into your site's systems.

WANT TO LEARN MORE? MEET SHANE VARDY



With over 16 years' experience within the fabrication, construction and commercial design sectors, Shane's skill-set is the perfect mix to manage technical custom projects.

Engaging with clients through design collaborations and product selection, Shane has successfully delivered multi-million dollar aquatic projects across Australia.

Providing CPD sessions and technical tours of completed projects, Shane has the ability to guide clients through a very technical world.



Scan to book
a session with
Shane

AQUATIC SPECIFICATION PARTNER

DESIGN *Pathway*

1

INSPIRATION

The space where we realise anything is possible; be inspired by past projects, the context of your design and the feature requirements. Start the integrated design approach from the outset; Think about the overall context of your design and how you want people to experience the water feature.

2

SUSTAINABILITY

Using a sustainable design philosophy, we look at the integration of the water feature into the whole site and its infrastructure, exploring options for reducing water and energy consumption without reducing the aesthetic impact.

3

BESPOKE DESIGN

Completely customised for your project, we work with you to select from a range of standard or customised product to deliver your desired water effects. Your water feature concept will be brought to life with pictures, videos and Crystal's WATERlab, a water simulator that demonstrates how your water feature will perform in real-life conditions.

4

FINISHES

From stainless steel to local granite to bespoke sculptural elements, material selection and finishes can help define the overall aesthetic by adding visual and tactile elements that give the water feature further presence and texture.

5

SPECIFICATION

The bespoke design concept is reviewed for technical compliance and conformance to sustainability and safety standards. Products are detailed, ready for specification.

6

CONSTRUCTION

Prior to construction, hydraulic and electrical engineering plans are completed, detailing integrations with new and existing services.

WORK WITH US

P 07 5301 9292
E hello@atlantisld.com.au



We have been helping our clients to re-imagine water features as an integral part of our society's fabric for the last 15 years.

With an integrated design and engineering team, our limitless imagination is bolstered by a professional construction team, experienced in flawless project completion.

Engaging across all levels, from design through to engineering and construction, we are here to guide you on the pathway to creating and delivering the water feature of your dreams.

P 07 5301 9292

E hello@atlantisld.com.au

W atlantisliquidynamics.com.au

ATLANTIS
liquid dynamics

IN PARTNERSHIP WITH

Crystal
where ideas flow™