

TechConnect Ventures

Sprint Challenge Brief:

Innovations In Hydrogen Fuel Cells

BACKGROUND AND AREAS OF INTEREST

It's the most abundant element in the universe, the source of light from the sun, and two thirds of a water molecule: hydrogen. This most basic of elements can power our vehicles, our homes, and our lives, and reduce greenhouse gas emissions. By utilizing hydrogen fuel cells, we can generate electricity, heat, and spin turbines, all without generating carbon or methane emissions.

Given its enormous potential, TechConnect Ventures seeks responses which enable, support, or expand the hydrogen fuel cell technology space. Potential pathways of interest include:

- Novel designs for hydrogen generation and hydrogen storage
- Innovation in
 - Storage materials
 - Fuel cell formfactor
 - Size
 - Shape
 - Weight
 - Storage capacity
 - Charge/discharge cycle
 - Speed
 - Capacity
 - Operational lifespan
- Safety systems
 - Pressure
 - Leak detection systems
 - Overcharge detection
 - Temperature

We are not interested in approaches utilizing micro plastics or materials of health or environmental concern.

While we are most interested in complete technologies, we will consider partial or supporting technologies of all technical maturities.

Through this sprint, we will facilitate contact and interactions between the sponsor and active researchers or technology developers in the space. We are significantly interested in submissions and novel concepts from individuals in academia and research, but all viable technology providers may respond for potential commercial opportunities with the client.

REQUIREMENTS

We encourage solvers submitting an entry to highlight key innovation areas in their submission that meet criteria including:

- Type of innovation
 - Anticipated performance
 - Advantages versus alternatives
 - Anticipated end-use application
 - Technical maturity (TRL)
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BUSINESS OPPORTUNITY FOR SOLVERS

We will include all complete and eligible entries in an exclusive innovation opportunity report for our client. TechConnect Ventures or our client may contact directly any well-matched capabilities to discuss potential partnership opportunities include, but not limited to, demonstrations, consulting, contract research, licensing, and more. TechConnect Ventures may also invite top rated entries to participate in an upcoming event or pitch program.

PARTICIPATION RULES & GUIDELINES

We encourage solvers to review the [Rules](#) and [Guidelines](#) for details about participation, including submission criteria, eligibility information, and more.

QUESTIONS? Contact Executive Director, Nick Kacsandi at info@techconnectventures.com