

## TechConnect Ventures

### Sprint Challenge Brief:

# Chemical Sensors for High Temperature Environments

Sprint Submissions Closed

## BACKGROUND

On behalf of a consortium of Innovation Seekers in the commercial and government sectors, TechConnect Ventures is seeking innovative technologies to detect chemicals (e.g. oxygen, carbon monoxide, NO<sub>x</sub>, sulfur, and hydrocarbons) at high temperature (exceeding 400°C). Of primary interest for this Sprint are technologies with potential to deliver novel solutions that integrate all aspects of the monitoring process with the aim of survivability in extreme conditions.

## REQUIREMENTS

TechConnect Ventures welcomes submissions from both the academic and industrial sections which describe innovative new technologies and solutions that are operable in these conditions. Potential solutions of interest include, but are not limited to:

- Novel sensor devices and materials
- Sensor packaging
- Advanced electronics
- Enabling wireless and/or wired communications
- Miniaturization of sensing systems (without loss of fidelity)
- Sensors that can also operate at high pressure

In addition to the criteria above, you are highly encouraged to highlight the ability of your technology to operate under high temperature in the presence of other extreme environmental factors (abrasive, erosive, corrosive, etc.).

## BUSINESS OPPORTUNITY FOR SOLVERS

All complete and eligible Entries will be included in an exclusive Innovation Opportunity Report that will be presented to our consortium of innovation-seeking clients and partners. Solvers with well-matched capabilities may be contacted directly by consortium members to discuss potential partnership opportunities. Top-rated Entries may also be invited to register or participate in an upcoming TechConnect Ventures event or pitch program.

## PARTICIPATION RULES & GUIDELINES

Solvers are encouraged to review the Rules and Guidelines provided on the Sprint page for details about participation, including submission criteria, eligibility information, and more.

**QUESTIONS?** Contact Executive Director, Nick Kacsandi at [info@techconnectventures.com](mailto:info@techconnectventures.com)