

Sprint Challenge Brief: **Air Purifying Compounds for Coatings**

BACKGROUND

In support of a global leader in coatings technology, TechConnect Ventures is calling for Entries describing novel and unique compounds that, when added to a coating, allow the finished paint film to capture, sequester, or break down unwanted airborne contaminants.

To improve air quality within a given space, the client is focused on two different aspects of air purification. Solutions that address either of these applications are acceptable:

1. Eliminating air pollution or odors which can impact the health or wellbeing of occupants of that space
2. Eliminating harmful gases which have the potential to damage the substrate underneath the coating

These contaminants may include, but are not limited to:

- Cigar/cigarette odors
- Pet odors or dander
- Particulate matter smaller than 2.5 microns (PM2.5)
- Gases associated with various industrial processes such as:
 - Carbon Dioxide (CO₂)
 - Carbon Monoxide (CO)
 - Formaldehyde (CH₂O)
 - Hydrogen Sulfide (H₂S)
 - Nitrogen oxides (NO_x)
 - Ozone (O₃)
 - Sulfur oxides (SO_x)

The client is also interested in technologies that capture other atmospheric contaminants as well but approaches that seek to capture or destroy microbial or viral contaminants are not within the scope of this Sprint.

The goal of this sprint is to facilitate contact and interactions between the Sprint sponsor and active researchers or technology developers in this space. Submissions and novel concepts from individuals and organizations in academia and research are of significant interest, but all viable technology providers are invited to respond for potential commercial opportunities with the client.

REQUIREMENTS

Solvers submitting an Entry are encouraged to highlight key innovation areas in their Submission that meet criteria including:

- Contaminant(s) absorbed
- Suitability for usage in a coating
- Unique aspects of the proposed technology

The client is interested in approaches designed for the coatings field as well as ones adapted from other industries. Furthermore, as the client is already familiar with existing commercial absorption technologies, they are primarily interested in those approaches that present novel performance, either in terms of efficiency or capability.

Approaches utilizing microplastics or materials of health or environmental concern are not of interest to the client and are out of scope for this Sprint.

BUSINESS OPPORTUNITY FOR SOLVERS

All complete and eligible Entries will be included in an exclusive Innovation Opportunity Report that will be presented to our client. Solvers with well-matched capabilities may be contacted directly by either TechConnect Ventures or the client to discuss potential partnership opportunities, including – but not limited to – demonstrations, consulting, contract research, licensing, and more. 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