

TechConnect Ventures

Sprint Challenge Brief:

Bio-Inspired Omniphobic Coatings for Medical Devices

Sprint Submissions Closed

BACKGROUND

On behalf of multiple international corporations, TechConnect Ventures is seeking responses from innovators around the world describing novel bio-inspired coatings capable of repelling all liquids (both water-based and oil-based). Bioinspired coatings can perform a number of functions including prevention of bacterial and fungal infection, as well as the ability to tune the surface wetting and lubricity properties. For this Sprint, we are calling for novel coatings (or other surface treatments) that exhibit strong anti-adhesion properties to suppress scaling, fouling, and/or biofilm formation.

REQUIREMENTS

Entries for this Sprint should be applicable to - or shall have potential to be developed for - use in the medical device industry. Solvers submitting an entry should make efforts to address the following key focus areas in their Submission (if applicable):

- Uniqueness or novelty of the coating/surface treatment
- Enhancements to the use, comfort and/or safety of medical device
- Biocompatibility of the solution (proven or potential)
- Manufacturability from low-cost materials (proven or potential)
- Ease of production, fabrication and/or scaleup (proven or potential)
- Highlights of any unique or differentiating capabilities (e.g. self-healing, self-cleaning, 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