

Industry Call for Opportunities

Selectively Printing Molecules and Generating Images on Curved Polymers

A global healthcare company with a history of successful academic collaborations is looking to identify research focused on **printing molecules and/or images on polymers for use in contact lenses and intraocular lenses**. This interest covers a wide range of polymers, such as hydrogels, silicone hydrogels, acrylics, and injection moulded plastics.



Research Approaches of Interest

- 1) The ability to print/transpose an image with high resolution (<10µm) on a curved polymer, e.g. onto a silicone hydrogel contact lens, with the aim of enhancing features/the appearance of the eye.
 - This can incorporate either one or multiple images, which can be selectively applied to specific locations on the curved polymer
 - Pigments, dyes or other molecules (which can be organic, soluble or inorganic) with particle sizes up to 50µm are suitable
 - These images can be created with multiple primary or blended colours, and can be multi-layered, and images can be incorporated either during or after the lens fabrication process
 - · Chemical engineering and physical chemistry approaches in printing that could be repurposed for contact lenses
- 2) **Technologies that could benefit eye health, such as wetting agents or therapeutic agents** that could be incorporated into the printing/polymer contact lens areas of interest.
 - As the solutions to be printed may contain monomers or macromers, it is acceptable to use higher viscosity printing solutions to accommodate this (up to 1,000 cP)
 - Images that are resistant to being rubbed off/removed during sterilisation processes would be ideal, but not essential

Stage of Development

Opportunities from basic through to phase I of clinical trials are within scope.

Out of Scope

'Smart' contact lenses

Opportunity for Collaboration

Our client is seeking a partner/collaborator with unique expertise or assets in the field of contact lens/polymer printing and fabrication. The ideal scenario would involve starting collaborations with the teams behind the submitted opportunities.

Submission Information

Submission of one page, 200-300 word briefs are encouraged, along with other relevant materials such as publications, patents etc. In submitting to this campaign, you confirm that your submission contains only non-confidential information.

Opportunities sought

👣 Technologies

Academics and expertise

Centres of excellence

Research projects

Spinout companies

Submissions

Please submit relevant, non-confidential opportunities online via: <u>discover.in-part.com</u>

Deadline: 9th August 2021 - 10:59 pm GMT

Have any questions?
Contact our team at discover@in-part.co.uk