

Bioinspired Mesoporous Silica

Our team



Dr Carlos Brambila performed customer and market discovery and now is seeking to develop bioinspired silica technologies so it is market ready.

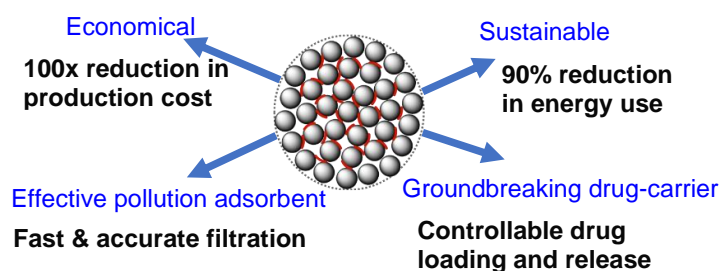


Prof. Siddharth Patwardhan leads the *Green Nanomaterials Research Group* with a vision of developing sustainable, scalable and economical routes to functional nanomaterials. He possesses a wide range of expertise in the synthesis and scale-up of bioinspired processes for a various materials and application sectors.



Our technology

We have discovered a sustainable and economical alternative route to mesoporous silica (with multi-billion USD market), which overcomes the barriers of existing methods and unlocks its manufacturing for multiple high-value applications.



Investment opportunities

So far, we have raised >£200k to standardise the process, demonstrate scalability and test materials, while discovering the potential markets, customers and partners. Currently, **we are looking for £100k** initially to realise our short-term vision to manufacture at pilot-scale and validate the materials in industrially relevant environments for the environmental protection market within two years and kick-start the developments needed to enter the pharmaceutical market in ten years.

	1 year	3 years	5 years	10 years	
Investment	£100k	£500k	>£1m		
Activities	Pilot-scales, product development and demonstration.	Sale (environmental markets) For pharma, formulation, safety evaluations, manufacturing, licensing	Market validation Revenues from licence, R&D clinical trials phases 1 and 2.	clinical trials phases 2 and 3.	Sale (pharma market)