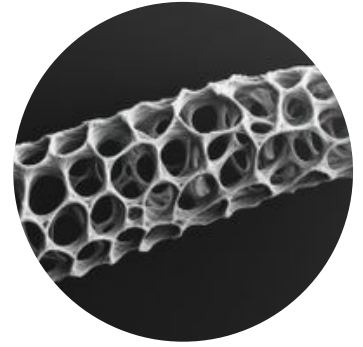


Seeking Materials and Processes for the Production of Porous Tubing

A global leader in optimized resource management providing water, waste, and energy management solutions is seeking **materials, technologies, and proven processes** for the production of **porous, hollow tubing**. Ideal parameters for produced tubing include enablement of **water passage at a rate of ≥ 1500 L/hour/m² at 1 bar pressure** and the ability to **withstand 100-700N of tensile force**. Desired dimensions include a **circular luminal diameter of 0.50-1.00 mm**, and an **external tube diameter of 1.50-1.80 mm**. Resulting tubing must also exhibit **flexibility and high bend-fatigue resistance**, allowing it to be wound onto a spool while withstanding **dynamic mechanical conditions**. Finally, produced tubing should be **resistant to hydrochlorite and stable in the 2–12 pH range**.



Approaches of Interest:

- **Existing porous materials** which can be adapted to produce tubing meeting **some or all of the criteria above**
- **Methods of tubing production** which can be applied to porous materials meeting **some or all of the criteria above**
- **All production processes** will be considered, but **extrusion-based production methods with a line speed of ≥ 20 m/min will be prioritised**
- Open to **suitable materials of all types**, but priority will be given to fluorine-free, low-cost materials

Out of Scope:

- Materials or processes which do not have an **associated prototype**
- Materials or processes which have **only been validated *in silico***
- Materials produced via **braiding or knitting processes**

Developmental Stages of Interest:

- Opportunities from TRL1 to TRL6 are within scope, **provided there is a physical prototype** with a clear line of sight to production






Submission Information:

Submission of one-page, 200–300-word briefs is encouraged, along with any optional supplementary information e.g. relevant publications. **Completion of this submission form is required.** In submitting to this campaign, you confirm that your submission contains only non-confidential information. **Accepting submissions from SMEs. This campaign is subject to some jurisdictional restrictions. For a full list of restrictions, please click [here](#).**

Opportunity for Collaboration:

Our client is open to a range of collaboration opportunities, with the most appropriate outcome being decided on a **case-by-case basis**. Example outcomes include licensing assets, project/PhD funding, and research collaborations. Successful proposals must have approaches that are **protected by IP (patent or trade secret), or have the ability to become a patent or trade secret.**

Opportunities sought

-  Technologies
-  Academics and expertise
-  Centres of excellence
-  Research projects
-  Spinout companies

Submissions

Please submit relevant, non-confidential opportunities online [here](#)

Deadline: **12th March 2025 - 11:59 pm GMT**

Have any questions?

Contact our team at discover@in-part.co.uk

