

## Alternative Chemistries to Liquid PFAS

A worldwide manufacturing company is seeking **alternative chemistries to liquid per- and polyfluoroalkyl substances (PFAS)**, specifically perfluoropolyether (PFPE), polyfluoroalkyl phosphate esters (PFAE) and fluorosilicones, which have raised environmental and health concerns due to their persistence, bioaccumulation, and potential toxicity. Ideally, these chemicals will be **sustainable, cost-effective, and high-performance alternatives** that can at least match the performance characteristics of PFAS-containing lubricants and research should comply with regulatory standards.



### Approaches of Interest:

- Key performance features include lubricity, wide temperature performance, oxidative stability, anti-wear properties and material compatibility
- **Existing materials and data** that could be applied to the manufacturer's formulations are of interest
- **Collaborative researches** that focus on specific applications where PFAS-containing lubricants are commonly used are also of interest
- Novel lubricants that can be used in applications related to **semiconductors, space, medical and automotives** are of highest interest, although alternative lubricants in adjacent industries will still be considered
- Plant based chemistries are considered

### Out of Scope:

- Solid lubricants

### Developmental Stages of Interest:

Our client is particularly interested in technology that has had a pilot stage and some level of validation (i.e TRL 3-6).






### Submission Information

Submission of one page, 200-300 word briefs are encouraged, along with any optional supplementary information e.g. relevant publications. In submitting to this campaign, you confirm that your submission contains only non-confidential information.

### 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.

#### Opportunities sought

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

#### Submissions

Please submit relevant, non-confidential opportunities online via: [discover.in-part.com](https://discover.in-part.com)

Deadline: **4th September 2023 - 10:59 pm GMT**

#### Have any questions?

Contact our team at [discover@in-part.co.uk](mailto:discover@in-part.co.uk)