

Reducing Organic Impurities in Phosphoric Acid Production

ICL Group, a leading producer of phosphoric acid for chemical manufacturing, is seeking novel and mature solutions to **remove or treat organic impurities from the phosphoric acid production process**. Approaches that target **all stages of the manufacturing process** are in scope, including **mining and beneficiation of phosphate rock, acid production, and post-processing**, with the earlier stages being highest priority. Solutions should **reduce the organic content** in merchant grade phosphoric acid to **industry-acceptable levels**.



Approaches of Interest:

- The impurities of highest interest are organic impurities, mainly **humic acid** and **fulvic acid**
- Solutions need to be able to work in harsh conditions and be able to **withstand dust, fluorine, high temperatures, and high acidity**
- Solutions that are **cost effective, scalable for large industrial plants**, and are **environmentally sustainable** are of highest priority
- Processes that use catalysts are in scope

Out of Scope:

- Approaches that aren't cost effective at industrial scale
- Approaches that can't withstand the harsh operational conditions (e.g. UV-based)

Developmental Stages of Interest:

- Opportunities **must** have at least pilot-scale proof of concept (TRL 5), better to have even higher as the idea is to implement the solution quickly and initiate the industrial project by Q4, 2026
- Priority will be given to later stage solutions with demonstrated efficacy in operational environments

Submission Information

Submission of one-page, 200–300-word briefs is encouraged, along with any optional supplementary information e.g. relevant publications. Submissions should provide a clear description of the technology and proof-of-concept data. Submissions that also include cost estimates will be prioritized. This campaign is open to submissions from SMEs and start-up companies. 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, service agreements, or ongoing collaborations.

Opportunities sought

- Research projects
- Spinout companies
- Technologies

Submissions

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

Deadline: **26th February 2026 - 11:59 pm GMT**

Have any questions?

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



ICL Group is a leading global specialty minerals company that creates impactful solutions for humanity's sustainability challenges in the global food, agriculture, and industrial markets.