

# SUSTAINABILITY INNOVATIONS FOR THE MATERIALS INDUSTRY

NOVEMBER-DECEMBER 2022

## PROBLEM STATEMENT

This Pall Corporation project was strongly focused on finding sustainable technologies for their operations. In particular, Pall wanted to find sustainable technologies in two key areas:

- **Non-Mechanical Recycling Approaches for Polymers:** here, Pall wanted to explore other recycling technologies, such as bacteriological or chemical recycling, which might be suitable for common materials used in biochemical separations, like polyolefins.
- **PFAS-free Surface Treatments:** many consumer and industrial applications rely on surfaces which repel water and oil. This performance is often achieved via the use of per- and polyfluoroalkyl chemicals, which are now recognized health concerns. Consequently, Pall sought to identify non-toxic alternatives with comparable performance.

## OUTCOME & RESULTS

Across both subject areas, this project generated 31 submissions from around the world. With submissions from the United States comprising roughly half of the responses, there were also responses from ten other countries.

From that initial pool of respondents, Pall Corporation narrowed the field to eleven respondents to invite to a virtual pitch program with 10 actually participating. Respondents were invited to share a brief presentation followed by Q&A with the Pall team. The goal of the virtual pitch event was to downselect even further.

Utilizing the information from both the initial submission and the pitch session, Pall selected 2 organizations for direct contact while also identifying a further four organization that exhibited potential for engagement pending updates such as further technical development or availability of test data.

## TESTIMONIAL

Through our project with TechConnect we were able to identify companies and universities with technology solutions we were not previously aware of. We had the opportunity to hear directly from these solution providers and to leverage TechConnect to help us screen potential partners to a few we were ready to engage with directly. We have since launched a research collaboration around a technology that is progressing through a proof of concept with promising results.

- **Amy Achter**  
VP External Innovation Partnerships,  
Cytiva (formerly Pall Life Sciences)

**31**  
ENTRIES

**6**  
DIRECT  
ENGAGEMENTS

**42%**  
PROTOTYPE  
DEVELOPMENT  
STATUS

**11**  
FINALISTS

**22%**  
TRL 3

**23%**  
CONCEPT  
DEVELOPMENT STATUS

**11**  
COUNTRIES