## Aerospace Industrial Waste-Incorporated Concrete for Sustainability and Extended Durability



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## Background

- ☐ Waste stream from carbon fiber composite elements are increasing from production lines
- ☐ Carbon fiber composites have superior engineering properties and therefore may structurally benefit other mediums such as concrete, if incorporated
- ☐ Durable and long lasting concrete infrastructure in cold regions is sought after



## Project Scope

- Composition design: develop simple and minimally energy-intensive recycling methods for carbon fiber wastes donated by industry partner
- Develop and test new hydraulic cement mortar mixtures that offer better mechanical properties and performance

