

# Material informatics for polymer composites

How would you collaborate with Collins Aerospace to leverage computational tools to accelerate discovery and characterization of new and improved polymer composite materials?

Every day, Collins works to create aircraft components that are lightweight, support greater fuel efficiency, and are more sustainable, relying in part on new material breakthroughs and the ability to tailor materials to meet specific aerospace needs. Polymer Composites (thermoset and thermoplastic) offer a potential paradigm shift in driving material advances and offering improved system performance. The process by which we discover and implement new materials is being impacted by rapid advances in technology. By some research group estimates, the pace of new material discovery has accelerated exponentially in the last several years. As we continue to move from single function materials and conventional manufacturing processes to multifunctional components, hybrid materials, and advanced automated manufacturing methods, we are looking to collaborate with material discovery and characterization technology providers to bridge experimental analysis with computational tools. Leveraging AI, integrated computational materials engineering, and data analytics, such providers will work with our advanced materials and methods team to integrate their solutions with our aerospace product requirements and validate the optimized solutions experimentally.

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