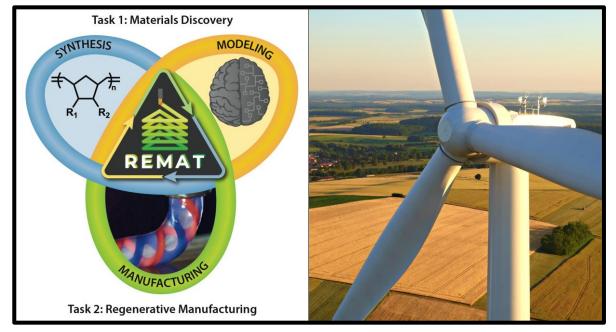
## Regenerative Energy-Efficient Manufacturing of Thermoset Polymeric Materials (REMAT) Nancy Sottos (University of Illinois, Urbana-Champaign); Class: 2022-2026

MISSION: To advance the science of thermochemical reaction-diffusion processes in additive and morphogenic manufacturing and accelerate a transformative, circular strategy for thermoset polymeric and composite materials with programmed end-of-life.



www.remat.edu

## **RESEARCH PLAN**

The Center's goal is to discover thermoset resin formulations that enable (i) closed-loop controlled, energy-efficient additive manufacturing, (ii) nascent morphogenic manufacturing strategies, (iii) programmed end-of-life upcycling, and (iv) precise understanding of the chemistry and physics that control properties, performance, and multifunctionality for (re)use in structural materials.















