



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed
Title	Biomanufacturing of Advanced Materials from Renewable Feedstocks
Company	C1 Bio
Speaker	Ryan Cardiff
TRL	TRL 4 - 7
Keywords feedstock (max 2)	crude glycerol
Keywords technology (max 2)	fermentation
Keywords End-Product (max 2)	advanced materials
Abstract:	
Semiconductor manufacturing depends on petroleum-derived chemicals sourced from fragile, foreign-dominated supply chains. Disruptions to these supply chains, most recently highlighted during the COVID-19 pandemic, erased over \$240B in economic value and exposed the vulnerability of domestic chip production to petrochemical dependencies. C1 Bio is developing an integrated biomanufacturing platform to address these challenges by converting low-cost and unrefined industrial waste streams into high-value monomers used as photoresists and other functional materials. Our platform leverages proprietary genetic engineering tools, specially evolved solvent-tolerant bacteria, machine learning-aided process design, and in situ product removal to enable production of advanced biomaterials that are cost-competitive with petrochemical incumbents. C1 Bio has achieved high product purity at the gram scale and is seeking partners for process scale-up and material characterization.	