Research:
- Novel epoxidation process for light olefins that eliminate CO₂ byproduct
- Innovative hydroformylation with gas-expanded liquids
- Spray reactors, such as the oxidation process for terephthalic acid
- Economic and life cycle analyses for ensuring commercial viability and minimizing ecological harm

Collaborators:
Prof. Subramaniam collaborates with multiple faculty in chemistry and chemical engineering—at KU and around the world. His departmental collaborators include: Profs. Bravo-Suarez, Chaudhari, Leonard, Scurto, Shiflett, and Tao. He has also partnered with >20 chemical companies through the Center for Environmentally Beneficial Catalysis (CEBC).

Equipment:
The CEBC houses a comprehensive suite of tools for catalyst preparation, characterization, and evaluation, valued at more than $7 Million.

Funding Sources:
National Science Foundation
U.S. Department of Agriculture
Environmental Protection Agency
Chemical companies

Go to cpe.engr.ku.edu to learn more.