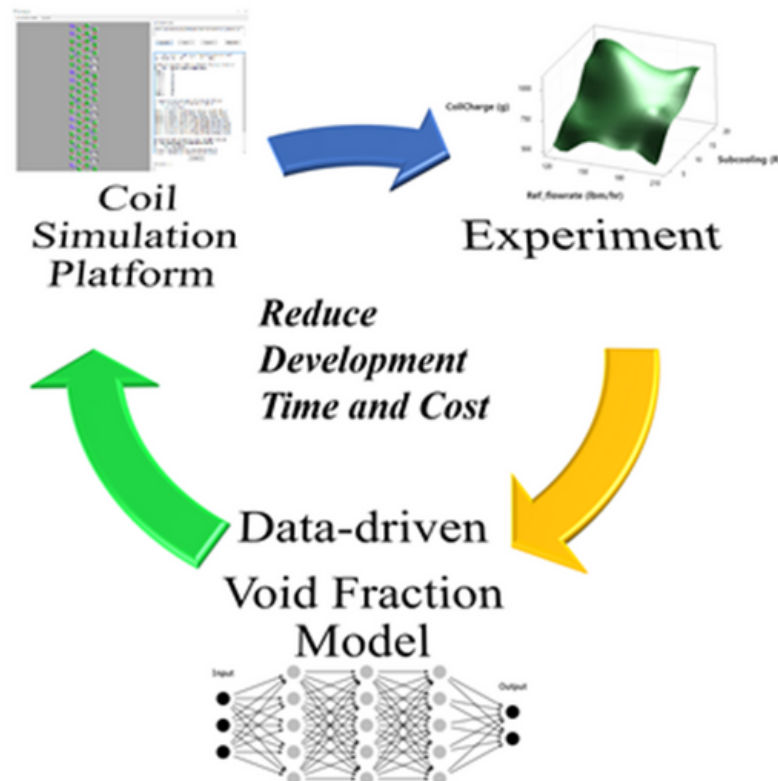


---

# Physics-Based Charge Model for Fin-Tube and Microchannel Heat Exchangers

*Project Number 22-03*



---

## PROJECT TEAM:

Students: Abraham J. Lee;  
Faculty: Christian K. Bach,  
Craig R. Bradshaw

---

## Goal

This project aims to increase charge prediction accuracy levels to better than 10% through an experimentally validated artificial neural network void fraction tuning, retaining physics

## Outcomes/Deliverables

This project will deliver a high fidelity HX charge data set, and a validated ANN enhanced void fraction submodel for the CIBS xFin simulation model