



JACK COOK

Cook is a graduate student working on research related to sizing geothermal borehole fields.

CONTACT

PHONE: 405-744-0390

WEBSITE: www.github.com/j-c-cook **EMAIL:** jack.cook@okstate.edu

FUNDING

ASHRAE Grant \$5000 Local Funding \$500

PARTNERSHIPS

Mechanical and Aerospace Engineering department

DURATION

4 months to design, build, and test

ORGANIC RANKINE CYCLE TEST STAND

Oklahoma State University

OUR STORY

The ORC project allowed us the opportunity to learn about the Rankine cycle operation first had. We learned how to design and use our hands to build and test an operational project. Working on this project lead me to stay on at OSU and pursue a masters in HVACR.

OUR PROJECT

Our project was to design and build an Organic Rankine Cycle test stand. The stand used R-134a and steam to produce power using a scroll expander. The stand would allow thermodynamics students the opportunity to see firsthand how the Rankine Cycle operates and allow them to use and analyze real data.

