## **Geothermal Manufacturing Prize**

Sandia National Laboratory, Richard Ellis Robey: rerobey@sandia.gov

Objective: Mechanically test the flexible casing connector at relevant temperatures and loading conditions

## **Anticipated scope of work:** Use Sandia National Laboratory

- **Tasks:** (1) Load prototype in tension at room temperature up to 220 kips. Compare to standard calculations and estimates for existing connectors.
  - (2) Load prototype in compression at room temperature up to 1000 kips. Compare to standard calculations and estimates for existing connectors.
  - (3) Load prototype in tension at elevated temperature (300 C) up to 220 kips. Compare to standard calculations and estimates for existing connectors.
  - (4) Load prototype in compression at elevated temperature (300 C) up to 1000 kips. Compare to standard calculations and estimates for existing connectors.

**Deliverables:** Temperature-dependent mechanical test data to verify and validate the mechanical performance of the connector.