



Heat Storage for Gen IV Reactors for Variable Electricity from Base-Load Reactors
Changing Markets, Technology, Nuclear-Renewable Integration and Synergisms with Solar Thermal Power Systems

July 23-24, 2019
Idaho State University
Bennion Student Union Building, 1784 Science Center Drive, Idaho Falls Idaho

Jamison Couture – Mechanical Engineer: Mechanical design, rotor system, bearings, aero analysis, and CAD

Jamison provides mechanical design support to a wide range of projects at Brayton Energy. He works on taking projects from the first stages of concept design to fully detailed and drafted machines. His skills include finite element analysis, computational fluid dynamics, rotor system design that is backed with a knowledge base of material science, fluids, and heat transfer. He combines these skills with highly-developed CAD experience in order to model various components of advanced turbomachinery systems. Jamison is taking a lead role in the gas turbine design programs at Brayton, managing and developing the designs of complete spools.

Jamison couples his extensive mechanical design skills with real world experience to keep his designs grounded to feasible and buildable assemblies. He has worked with Engineers without Borders for four years and has traveled to Cet-Kana, Uganda, afflicted with the aftermaths of the Kony Crisis, to implement a spring box for a community with inadequate fresh water resources. For this project, Jamison drafted the blueprints which the builders used to construct the spring box. In Uganda, Jamison was part of a six person team that oversaw and helped construct the spring box with the aid of twelve local Ugandans. As a personal project and hobby, Jamison has become a self-taught mechanic to build his 2004 Jeep Wrangler TJ from a daily driver to a rock crawling capable overlander.

Apparent from his Jeep lifestyle, Jamison has a love for the outdoors. He enjoys backpacking across the White Mountains, running, and camping whenever he can. His passion for the outdoors is what lead him into a career in renewable and green energies.

Jamison graduated magna cum laude from the University of New Hampshire with a Bachelor's of Science in Mechanical Engineering