Development of unique instrumentation for materials testing

**Contact Person:** Dr. Sean Downey, Anthropology (downey.205@osu.edu)

**Position description:** Development of unique software for performance of computational model based design of experiment studies using commercially available software for simulations of phase transformations in metallic alloys (thermodynamics and kinetics) and FEA software for simulations of transient thermo-mechanical behavior (heat transfer, stress, strain, distortion) in welds.

**Time Commitment:** 10-15 hours/week for approximately 12 months.

**Minimum GPA & Major:** Second or third year students in CoE, Computer Science and Engineering.

**Skill Requirements:** Experience in data acquisition, measurement and instrumentation, microprocessor control, software development for data acquisition and control. Previous research experience and / or hands-on experience in software development using Experience in C/C++, Java, Python, and / or MATLAB is required.

**Compensation:** Salary/Stipend

**To apply:** If interested, candidates should email resume to Dr. Boian Alexandrov (alexandrov.1@osu.edu). Student should include an attached resume. Applications accepted until February 22, 2018.