Position Summary
Shaw Mountain Technology is a Boise-based company that produces high-quality, advanced material technology. We specialize in shape memory alloys, particularly the magnetic shape memory (MSM) alloy Ni-Mn-Ga. SMT currently develops a small pump (currently 1 x 1 x 3 cm³) to be used in microfluidic research. The engineering intern will be responsible for the manufacturing of the micropump and characterizing the performance of the completed pump. The engineering intern will also contribute to the development of the MSM micropump.

Tasks and Responsibilities
- Prepare the MSM samples using metallographic grinding and polishing
- Manufacture MSM micropumps
- Characterize the performance of the MSM micropumps using provided characterization platform
- Improve the design of the MSM micropump based on data and observation of performance
- Report results
- Assist as needed with other tasks (product research/ordering, machining, etc.)

Qualifications
- Currently enrolled in a B.Sc. in Mechanical Engineering or related field
- Mechanical aptitude with experience building small parts
- Machine shop certified at BSU COEN Student Shop
- Proficiency with Solidworks
- Excellent teamwork, communication and technical writing skills
- Self-motivated and independent work ethic
- Knowledge of and interest in material science desirable
- Experience with metallographic sample preparation desirable

Other Expectations
- Workload about 20 hours per week during the semester and up to full time during school breaks.
- Employment is available immediately to August 15th, 2017 with an extension possible depending on the availability of funding and on performance.

Compensation
- Starting wages are $11 – $14 per hour, depending on qualifications.

Please send your résumé and contact information for two references to aaronsmith@shawmountaintechnology.com.