April 6, 2016

Dear Colleague:

We are currently accepting applications for the Confluent Medical Post-Doctoral Fellowship, a new postdoctoral scholar position at Colorado School of Mines, located in Golden, CO, USA. The successful applicant will work to develop additive manufacturing technologies for precipitate strengthened NiTiX alloys, and also perform other shape memory alloy related R&D activities. The Post Doc will be advised by myself, and also receive industry mentorship from Dr. Tom Duerig, CTO of Confluent Medical (formerly Nitinol Devices and Components, NDC). This fellowship provides a tremendous opportunity to work at the forefront of functional alloy metallurgy, advanced manufacturing, mechanics of materials, and material data informatics. The successful applicant will perform advance structure-property-process characterizations and use data analytics (e.g., machine learning) to optimize the processing, microstructures, and properties of 3D printed NiTiX parts. The characterization techniques used will include 3DXRD (grain mapping & tomography), TEM, SEM, optical microscopy, and thermo-mechanical testing. Please direct any questions and CV’s and to astebner@mines.edu.

Sincerely,

Aaron Stebner
+1 (303)273-3091

Assistant Professor: Mechanical Engineering & Materials Science (stebnerlab.mines.edu)

Technical Director: Alliance for the Development of Additive Processing Technologies (adapt.mines.edu)