Postdoctoral Associate Hiring Poster

The Multiscale Materials and Manufacturing Laboratory at University of Massachusetts Amherst is currently seeking talented candidates for a Postdoctoral Associate position in contributing to advanced research programs.

Responsibility: Incorporate knowledge of additive manufacturing to build high performance metal alloys and 3D architectures (mechanical metamaterials); analyze the microstructure-property relationships in additively manufactured materials and 3D architectures; contribute to active projects in applications in civil engineering, aerospace, energy, and defense sectors. This candidate is expected to have extensive experience in developing and publishing novel academic research, utilizing experimental and analytical techniques to develop new principles and methodologies that solve practical problems and explore the applications for additive manufacturing technology.

REQUIRED
• PhD in Mechanical Engineering, Materials Science, Applied Physics or equivalent.
• Familiar with additive manufacturing, physical metallurgy, mechanical metallurgy, and solid mechanics.
• Excellent interpersonal, written and verbal communication skills.
• Record of peer-reviewed publications.

The Multiscale Materials and Manufacturing Laboratory at University of Massachusetts Amherst is focused on advanced manufacturing of structural and functional materials. Structural metal alloys that we study include Al alloys, steels, high entropy alloys, metallic glasses, and 3D architected materials (also called mechanical metamaterials). Our lab houses a wide range of additive manufacturing facilities including direct ink writing, laser powder bed fusion, laser engineered net shaping, and plasma wire arc additive manufacturing system. We have a multidisciplinary team working on alloy development, mechanical behavior of additively manufactured materials, powder metallurgy, and electrochemistry.

If you are interested in applying for the position, please send a CV to Dr. Wen Chen (wenchen@umass.edu).

Lab website: http://blogs.umass.edu/wenchen/