


UMass Lowell Research Institute

Director, Matthew McSwain
Cold Spray Action Team (CSAT)
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Learning with Purpose


UMass Lowell Research Institute

Matching UMass Innovation and labs to DoD and industry requirements

R&D
Defense Contracts

Advanced Manufacturing
Robotics
Collaborating IVAR Facility

Academic Offerings
Military/Civilian




Direct Local Support
Natick/Hanscom DoD Wide

Defense Prime Contract Partners

Local Vo-Tech Matriculation Jan 18

Incumbent Workforce Development
Defense Industry Partnerships

Graduate Engineering, MBA
Certificate Courses: Cyber, PMP,
Agile Software Development
Gaps in DAU Courses



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UMass SBIR Center of Excellence

Massachusetts Innovation Eco-System

MA Innovation Bridge

- Connects local businesses, non-profits, and academic institutions with federal opportunities
- MassDev/MITRE funded

MSBDC


- Encourages domestic small businesses to engage in Federal R/R&D that has potential for commercialization.
- State/Federal funded

DIUx

- Provide non-dilutive capital in the form of pilot contracts for commercial innovation that solves DoD problems.
- Expedited federal contracting

Defense Industry Strategic Steering Committee

- Defense Large Primes, Defense SMEs, VCs, "Cambridge Innovation Groups"
- Federal/State funded



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Coldspray Technology Lab

- ▶ Partnership with Army Research Lab
- ▶ Division of overall UML Advanced Manufacturing Consortium
- ▶ Federally funded training for initial cadre of coldspray technicians
- ▶ KTech Machine for initial training and classroom instruction
- ▶ RDT&E light projects
- ▶ Initial collaboration with Penn State Univ to develop workforce development training for industrial base
- ▶ Future addition of VRC Gen III Machine



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Closing Thoughts/Questions

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