

UAMMI Appropriation Request Attachment

UAMMI Statewide Mission

The Utah Advanced Materials & Manufacturing Initiative (UAMMI) was established in 2016 to expand the advanced materials industry in Utah. This includes carbon fiber composites, ceramics and advanced alloys and techniques such as 3D printing and automation that are used in aerospace, energy, recreation and medical device industries. More than 15,000 jobs and over 100 companies are involved in this industry in Utah which are located in both urban and rural parts of the state. A major part of Hill Air Force Base's mission involves maintenance of composites-based aircraft. UAMMI has created a sophisticated Supply Chain Database to connect suppliers and users and identify gaps. UAMMI connects Utah universities with industry by bringing new research and industry needs together. Workforce development is a critical need for this industry and UAMMI works with education to bring expanded programs forward.

Budget Details

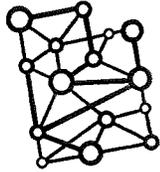
- A. Expand the UAMMI Supply Chain Database Tool for rural users (subcontract for software development)
- | | |
|---|----------|
| 1. Visualization Tool Enhancements | \$30,000 |
| a. Complete Customer/Supplier relationship model | |
| b. Enhance Industry/Workforce relationship model | |
| c. Add R&D mapping capability | |
| 2. Connecting Utah users to national platform (Manufacturers Marketplace) | \$20,000 |

TOTAL FOR PART A \$50,000

B. Create and deploy a state-wide technology innovation competition to enhance and promote innovation and stimulate startups in advanced manufacturing and advanced materials including carbon composites, ceramics, 3D metal printing and sustainable plastics and fibers. Special outreach to rural communities using existing RAMP business mentorship program. Funds to match with private and local government sponsorships.

TOTAL FOR PART B \$50,000

C. Expand use of UAMMI 3D Carbon printer for industrial users
Engineering Support for design optimization and machine operations \$75,000
Machine leasing and factory support contract \$35,000



uammi
UTAH ADVANCED MATERIALS
+ MANUFACTURING INITIATIVE

450 South Simmons Way

Suite 300

Kaysville,

UT 84037

www.uammi.org

Materials - Carbon fiber, advanced thermoplastic and thermoset resins \$25,000

Part testing and evaluation by Utah Composites Lab at U of U \$15,000

TOTAL FOR PART C \$150,000

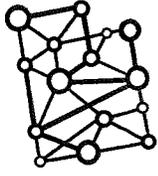
TOTAL REQUEST \$250,000

Deliverables or Performance Measures

Deliverables: a). Completed, user friendly UAMMI Supply Chain Tool capable of connecting Utah businesses and keeping more supplier/vendor dollars in state. New capabilities will be added to better connect rural users and provide assistance to small businesses to connect with new customers in Utah and elsewhere. This work is a direct supplement to UAMMI's designation as SBA Regional Innovation Cluster. b) Create and deliver a state-wide advanced manufacturing competition. Link with UAMMI RAMP business mentorship program and take to rural communities. c) Expand use of UAMMI 3D Carbon Fiber printer for industrial users. Machine was brought to Utah through an Air Force contract and has been dedicated for military development and can benefit Utah industry. but needs additional support to do so.

Performance Measures

1. 100% of Utah's advanced composites industry captured in the Supply Chain Tool creating unprecedented insight into Utah's capabilities and gaps for the purpose of growing or recruiting new business.
2. Business growth as a result of UAMMI's Supply Chain Tool as demonstrated by Exchange Center usage (including RFI/RFQ connections) by at least two companies per month.



uammi
UTAH ADVANCED MATERIALS
+ MANUFACTURING INITIATIVE

450 South Simmons Way

Suite 300

Kaysville,

UT 84037

www.uammi.org

3. Create and execute innovation competition in first year and secure sponsorships and award funding.
4. Assist at least three Utah composites companies in use of new 3D printing technology for in state research and development of new products.

Explanation of Other State Funding

One-time non-lapsing funds were appropriated to UAMMI through GOED in FY 18 and FY 19 for start-up costs and cost share support for three federal grants.

Supplemental Information

UAMMI's Board of Trustees is comprised of the constituents it supports. The current Board includes industry members TCR Composites (Chair), Lockheed Martin, Boeing, Northrop Grumman, Kihomac, Janicki, Conductive Composites, and Hexcel; academia representatives including Weber State, Davis Technical College, Ogden-Weber Technical College, Salt Lake Community College, University of Utah and Granite School District; and the Governor's Office of Economic Development (GOED). Hill Air Force Base serves in an advisory role.