



FABRIC DISCOVERY CENTER

Designing and Developing
Integrated Technologies

TRANSFORM IDEAS INTO PROTOTYPES

Only site in the nation with a model
for synergistic interactions between
three Manufacturing USA Institutes

Convergence of three manufacturing
institutes in one high tech ecosystem



28,000 square feet of dedicated space for
your research, development, prototyping,
and testing activities

Small businesses, start-ups, and large
corporations can collaborate with our
faculty, students, and experts



EMPOWERING INNOVATION

Design, Pilot Manufacturing & Testing

Resources:

- Multi-component fiber extrusion
- Designer substrates and inks for 3D printing and roll-to-roll processing
- Textile assembly (knitting, weaving, braiding)
- Textile finishing equipment (coating, printing, sewing, bonding)
- Gateway for interaction with the medical device incubator (M2I2) and the technology incubator (iHub)

Expertise:

- Polymeric materials science and engineering
- Functional apparel design
- Robotics and automation
- Wearable device user performance assessment
- Wide range of testing capabilities
- Technical workforce training (in collaboration with community colleges, MassMEP, and K-12 schools)

CONNECT

UMass Lowell Fabric Discovery
Center

www.uml.edu/research/fdc

Contact us at:
LowellFDC@uml.edu





FABRIC DISCOVERY CENTER ECOSYSTEM

Academia, industry, and Government join forces at the UMass Lowell Fabric Discovery Center to transform new ideas into prototypes and scale-up to create dual-use products.



MANUFACTURING INSTITUTES

As members of Manufacturing USA, these three manufacturing institutes collaborate with the Fabric Discovery Center by providing funding, support, and research capabilities.



Advanced Functional Fabrics of America (AFFOA) is based in Cambridge, MA with the mission of rekindling the domestic textiles industry by leading a nationwide enterprise for advanced fiber & fabric technology development and manufacturing, enabling revolutionary system capabilities for national security and commercial markets.

go.affoa.org



NextFlex®, America's Flexible Hybrid Electronics Manufacturing Institute, was formed in 2015. It is a consortium of American electronics companies, academic institutions, non-profits and state, local and federal government partners with the shared goal of advancing U.S. manufacturing of printed flexible electronics.

nextflex.us



Advanced Robotics for Manufacturing (ARM) is the nation's leading collaborative in robotics and workforce innovation. ARM accelerates the development and adoption of innovative robotics technologies that are the foundation of every advanced manufacturing activity today and in the future.

arminstitute.org



As part of the Massachusetts Technology Collaborative, the Massachusetts Manufacturing Innovation Institute (M2I2) has a mission to foster the most complete, most connected, and fastest manufacturing ecosystem from innovation through production.

m2i2.masstech.org