ADVANCED STRUCTURES & composites center

TEXTILE INNOVATION

Fabric Innovations in Biopolymer Engineering Research

1865 THE UNIVERSITY OF MAINE

RESEARCH AREAS + CAPABILITIES

Structural Textiles

Novel Fiber Technology

Multifunctional Textiles

Composites and Composite Joints

High-Performance Textiles

Fabrics & Structures

Textiles for Extreme Environments

Responsive Textiles

Defense Applications

The Advanced Structures & Composites Center

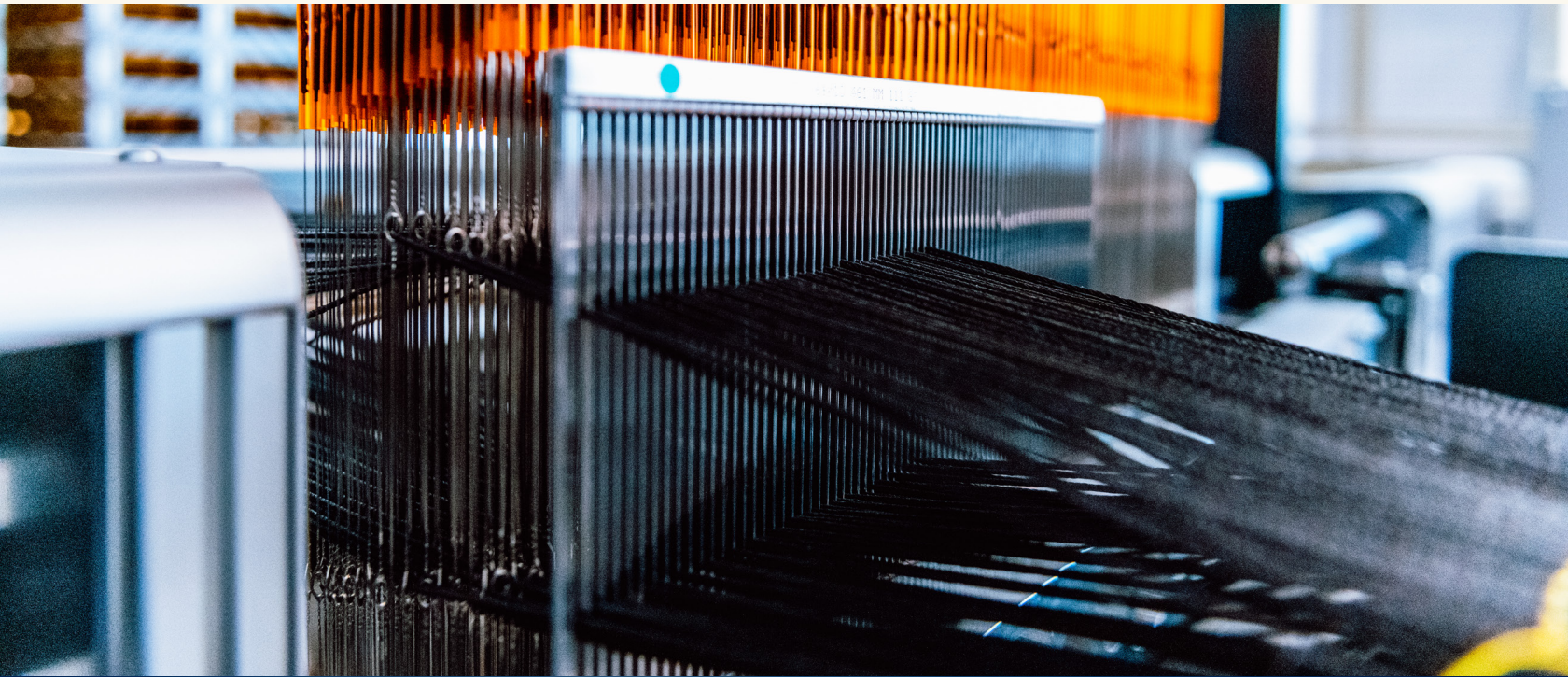**ADVANCED STRUCTURES & composites center**

VERTICALLY-INTEGRATED RESEARCH

The FIBER Lab at the ASCC will support and expand the extensive composites research by using custom polymers, compounds, filaments, fibers, preforms, and fabrics to integrate functionality into composites and structures.

Leveraging the University of Maine's scholarship and 30 years of manufacturing innovation, the ASCC's capabilities span to control every step in the manufacturing process; from raw materials development, to braiding novel yarns, and fabric creation.

Current focuses include

- Energy harvesting
- Enhanced performance in extreme environments
- Lightweight structures
- Responsive materials
- Novel materials

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