

# COLORADO



## Strengthening wind energy growth in the US energy market

Colorado is home to IACMI—The Composites Institute’s Wind Turbine Technology Area. Capitalizing on the long and productive history of collaboration between federal and state agencies and major wind industry OEMs, IACMI’s facility is developing, testing, and deploying transformational manufacturing methods, designs, and materials.

The Wind Turbine Technology Area is catalyzing economic growth in Colorado and other states while it increases opportunities for wind power utilization throughout the US energy market.

### Facility Hosts and Partners

The Composites Manufacturing Education and Technology Facility (CoMET), the 10,000-ft<sup>2</sup> wind energy facility, is housed at the National Renewable Energy Laboratory (NREL).

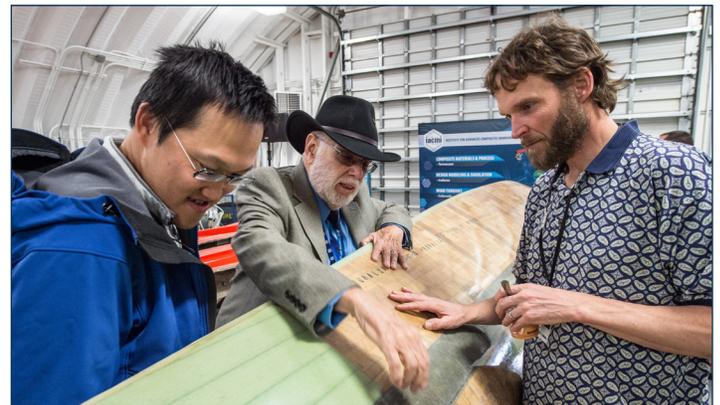
State/academic partners include the Colorado School of Mines, Colorado State University, Iowa State University, the University of Colorado (Boulder), and the Colorado Office of Economic Development and International Trade (OEDIT).

Major wind energy OEMs involved with our Wind Turbine Technology Area include GE, Siemens Gamesa, Vestas, TPI Composites and LM Windpower. Other key IACMI partners include Arkema, DMS, Gates, Johns Manville, Lockheed Martin, Steelhead, and Vartega.

### Research Features

#### Key Equipment and Technology:

- 3D printed blade tooling
- Composite material mixing equipment
- Novel materials for rapid prototyping
- Infusion, pultrusion, prepreg and RTM capabilities
- Industrial robotic platform for automation research
- Composite recycling processing and material characterization
- Design and manufacturing modeling and simulation
- Structural property characterization



#### Recent projects:

- Advanced thermoplastic resins for manufacturing wind turbine blades
- Recycled carbon fiber for automotive applications

#### Technical Area Advisor

Derek Berry  
Director, Wind Turbine Technologies Area  
[Derek.berry@nrel.gov](mailto:Derek.berry@nrel.gov)