

# Energy Science and Technology Directorate

## Buildings and Transportation Science Division

### Propulsion Science

Engine Technologies Research

Combustion and Fuel Science Research

Applied Catalysis and Emissions Controls Research

Electric Drives Research

### Vehicle and Mobility Systems Research

Vehicle Systems Integration Research

Vehicle Connectivity and Autonomy Research

Transportation Analytics and Decision Science

Vehicle Power Electronics Research

### Building Technologies Research

Building Equipment Research

Multifunctional Equipment Integration

Building Envelope Materials Research

Integrated Building Performance

## Manufacturing Science Division

### Energy Efficient Manufacturing Science

Advanced Fibers Manufacturing

Advanced Composites Manufacturing

Chemical Process Scale Up

Manufacturing Energy Efficiency Analysis

### Precision Manufacturing and Machining

Robotics and Intelligent Systems

Intelligent Machine Tools

Manufacturing Systems Design

Manufacturing Automation and Controls

### Secure and Digital Manufacturing

Deposition Science and Technology

Digital Manufacturing and Analyses Frameworks

## Electrification and Energy Infrastructures Division

### Electrification

Emerging and Solid-State Batteries

Energy Storage and Conversion Manufacturing

Electronics and Embedded Systems

### Energy Systems Integration and Controls

Power Systems Resilience

Grid Components and Controls

Power Electronics Systems Integration

Grid Communications and Security

Grid-interactive Controls

### Energy Sensing, Analytics, and Communications

Electrical Signals and Processing

Sensors and Controls

RF and Intelligent Systems

Energy Systems Analytics

Multimodal Sensor Analytics