

# UNITED STATES TECHNICAL CENTER SAGINAW, MICHIGAN, USA

Our In-House Ownership of R&D, Design, Testing, Validation & Manufacturing Provides Customers with Agility, Responsiveness, Quality & Value



## QUICK FACTS

### Engineering Capabilities:

- Software
- Electrical
- Mechanical
- Manufacturing

### US Focus Areas:

- Applications Engineering
- Software Applications
- Systems Engineering
- Validation & NVH Testing
- Vehicle Integration & Testing
- Customer Service Center for NA OEMs

### Global Focus Areas:

- Rack-Assist EPS Vision & Tech Roadmap
- R&D Innovation
- Systems Architecture
- Product & Process Architecture
- Advanced Core Product Technology
- Virtual Engineering & Simulation Tools



## USTC HIGHLIGHTS



### Test Track

On-site track for test drives with a ride and handling loop, a north/south straight-away, multiple road surfaces and more



### State-of-the-Art Prototype Facilities

Flexible build-cell architecture that enables quick response to customer needs – including machining, heat treating, plastic injection capabilities and more



### State-of-the-Art NVH Facility

Full vehicle semi-anechoic chamber, several component level semi-anechoic chambers and full steering system or component level noise testing



### EMI & Validation Facilities

EMI/EMC Testing Laboratory and Field Data Replication Validation include proprietary methodologies to translate real-world testing into test bench simulation



### Validation Facilities

EPS Field Data Replication Validation Lab includes proprietary methodologies to translate real-world testing into bench simulation



### Virtual Engineering

Capabilities that improve efficiency and effectiveness in all phases of product design, development, validation and manufacturing

## OUR IN-HOUSE BUILDING BLOCKS FOR ADVANCED SAFETY & PERFORMANCE FEATURES

Nexteer's in-house capabilities enable us to meet the growing demand for an increasingly electrified, automated and connected future.

MOTOR DESIGN

POWER ELECTRONICS

SENSOR DESIGN

SOFTWARE ALGORITHMS

SYSTEMS ENGINEERING

CYBERSECURITY

CLOSED LOOP SERVO CONTROL

SAFETY-CRITICAL PRODUCT DEVELOPMENT

**VEHICLE-LEVEL INTEGRATION EXPERTS: SOFTWARE, ELECTRICAL & MECHANICAL**

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a leader in intuitive motion control