

YOUR GUIDE TO ADVANCED STUDY



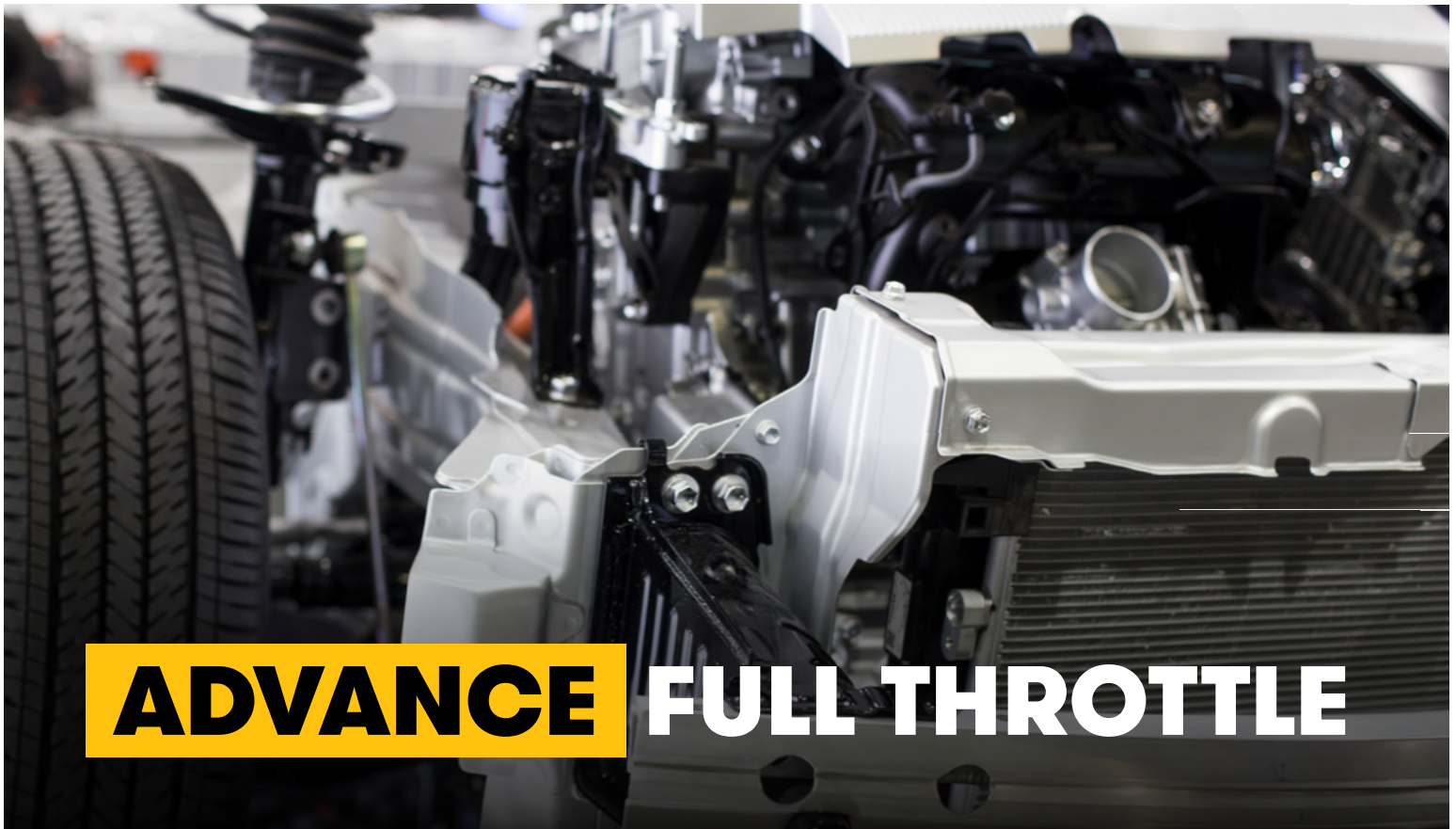
Capstone Certificate in **POWERTRAIN ELECTRIFICATION**

ONLINE



UNIVERSITY OF WISCONSIN-MADISON

[go.wisc.edu/
powertrain-electrification-certificate](https://go.wisc.edu/powertrain-electrification-certificate)



ADVANCE FULL THROTTLE

Be part of the future in powertrain development

A graduate-level deep dive into engine-electric hybridization

This 100% online certificate program was created for engineers with a mechanical engineering background who want to grow their skill set and document their new expertise.

Deepen your knowledge with concentrated study

Based on a coursework from our engine systems master's program

Integrating research from UW–Madison's Engine Research Center, the broad knowledge of senior faculty and input from engine industry employers, this high-level course content is designed to expand career possibilities in this time of change. Credits can be applied toward UW–Madison's engine systems master's degree.

You'll have the knowledge to

- Develop control systems for electrified powertrain systems
- Comprehend and be able to analyze working principles of all components in electrified powertrain systems
- Describe how cells are connected to make modules and packs for power and energy applications
- Develop systems thinking at vehicle level and drive cycle analysis by recognizing energy flows and losses in a vehicle and identify the main contributors for them
- Quantify losses and impact of specific technologies on vehicle fuel economy and summarize the assessment plan

All online

UW–Madison is widely recognized for advancing knowledge and taking an innovative approach to distance learning.



AT A GLANCE

CREDENTIAL CONFERRED
Capstone Certificate

FORMAT
100% online,
from anywhere in the world

TIMELINE
2–3 semesters

CREDITS
10 graduate credits
\$1,300 per credit

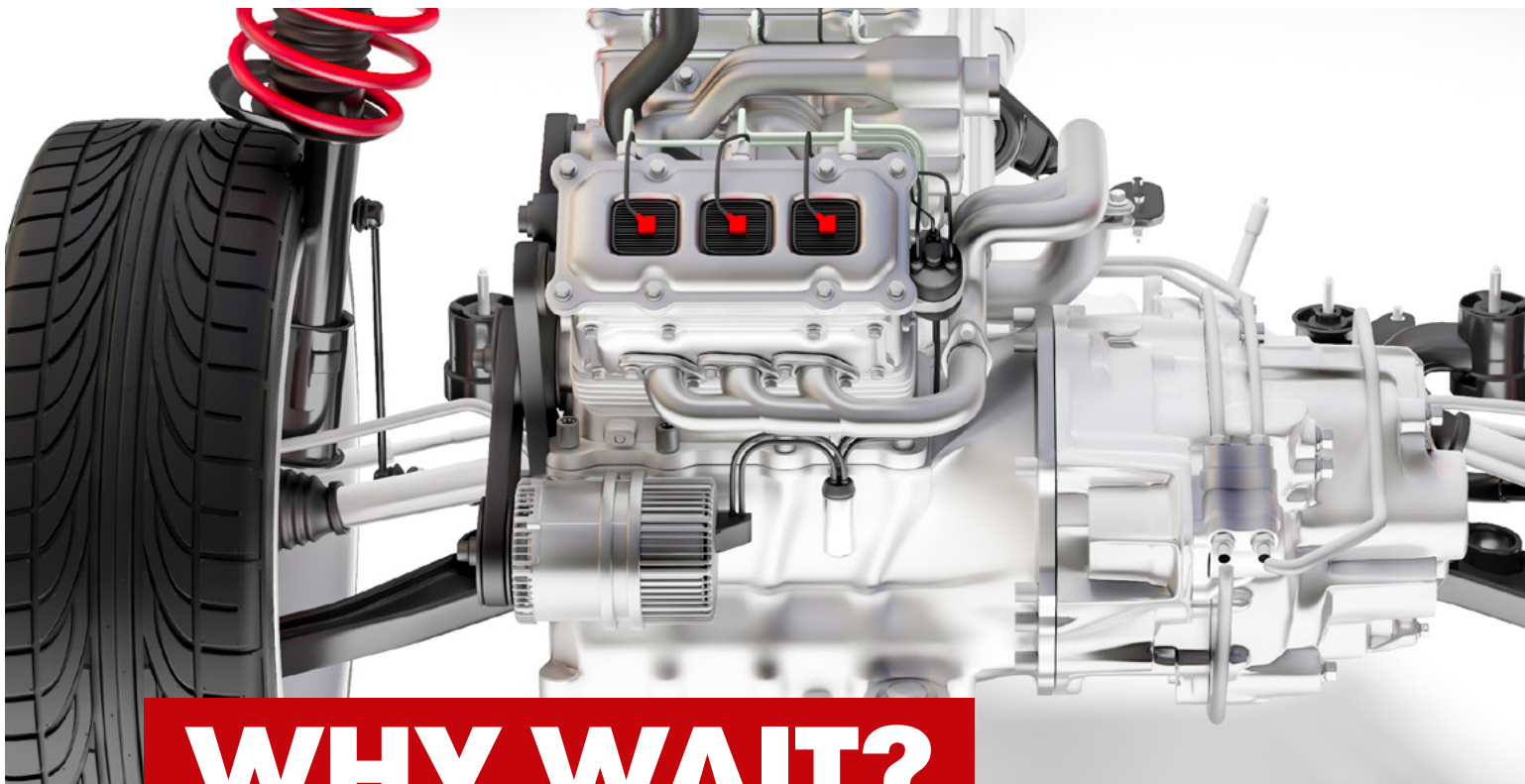
START
Fall & spring

Learn from the best: UW–Madison’s online engineering graduate programs are consistently top-ranked by *U.S. News & World Report*.



Curriculum

- Electrified Powertrain Systems
- Batteries for xElectrified Vehicles
- Powertrain Systems and Controls
- Electrified Vehicle-Level Modeling



WHY WAIT?



Dr. Andrea Strzelec
Program Director

Get more information and insight today

For information and insight on the powertrain electrification program, contact Dr. Andrea Strzelec at strzelec@wisc.edu.