

Adjunct / Part-Time Faculty in Motorsports Engineering

The Aerospace Engineering Department at Old Dominion University currently offers a minor in motorsports engineering for mechanical engineering and engineering technology students. This minor introduces critical technologies (*aerodynamics, chassis dynamics, piston engines, and racecar performance*) that drive high performance racecars and prepares students for entry-level positions in motorsports or automobile industries.



The department is also initiating a master of engineering degree in motorsports engineering, projected to start in spring 2008. This unique program will alternate matriculation sites between the Norfolk campus and Virginia International Raceway (VIR) and will include substantial laboratory content, including a large state-of-the-art wind tunnel, 8-post dynamic test facility, motion-base driving simulator, large capacity chassis dynamometer and on-board engine performance data systems. A capstone project will include on-track performance testing at the VIR facility.

The Aerospace Engineering Department seeks motorsports enthusiasts to fill adjunct faculty positions to teach innovative courses in these exciting new degree programs. Responsibilities include lecture and laboratory instruction at the U/G and graduate level in topics such as:

- Ground vehicle aerodynamics (U/G & graduate)
- Motorsports vehicle dynamics (U/G)
- Racecar performance (U/G)
- High performance engines (U/G)
- Tires and brakes (graduate)
- Structures & materials (graduate)
- Sensors & data analysis (graduate)
- Drivetrains (graduate)
- Team dynamics & leadership (graduate)



Minimum qualifications require a Master of Science degree in an appropriate engineering discipline or equivalent experience. Please contact Dr. Colin Britcher, Professor and Chair, Aerospace Engineering at 757- 683-3720 or britcher@aero.odu.edu for additional information.