Reducing CO₂ emissions is a fundamental concern across the automotive industry. Dr James Green is looking at how to achieve reduce emissions in hybrid electric vehicles, by developing more efficient energy recovery processes. Starting in 2017, he will use a Royal Academy of Engineering Industrial Fellowship to collaborate with Controlled Power Technologies (CPT), an innovative company developing smart solutions for energy-efficient mobility.

Dr Green will work on instrumentation and measurement problems, including the development of a bespoke torque sensor. This high-specification sensor could potentially help to increase the commercial uptake of technologies developed by CPT. Dr Green will also integrate these design examples into his teaching to enhance undergraduate students’ learning.