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Richard is Chair Professor of Computational Mechanics in the Department of Mechanical Engineering at the University of Melbourne. He also leads the Power Generation and Transport Program of the Melbourne Energy Institute.

His main interests are in (i) high-fidelity simulation of transitional and turbulent flows to gain physical understanding of flow and noise generation mechanisms, (ii) pursuing novel machine-learning approaches to help assess and improve low-order models (e.g. RANS) that can be employed in an industrial context.

He received his PhD in 2004 in Aerospace Engineering at the University of Arizona and prior to joining the University of Melbourne, he was a Professor of Fluid Dynamics and Aeroacoustics in the Aerodynamics and Flight Mechanics research group at the University of Southampton and headed the UK Turbulence Consortium (www.turbulence.ac.uk). He was awarded a veski innovation fellowship in July 2015 entitled: "Impacting Industry by enabling a step-change in simulation fidelity for flow and noise problems" and has been granted an Australian Research Council Future Fellowship for 2020-2024 to work on integrating high-fidelity simulation and machine-learning based turbulence modelling. He is an editor for Flow, Turbulence and Combustion and the Journal of Turbomachinery and is part of the ASME Gas Turbine Technology Group.