



Professor Sally Male has committed her career to providing engineering students of all backgrounds the best possible opportunity to develop capabilities and attributes to lead successful lives contributing to a well-functioning society. She has achieved this through industry-engaged teaching and research, and through leadership in engineering education research, especially on curriculum development, industry engagement and inclusion. Male has made wide-reaching contributions to enhancing engineering education across Australia and internationally.

First, Male has built on her engineering background by developing education research expertise. During her PhD, Competencies of Engineers Graduating in Australia, Male identified 11 generic engineering competencies. Based on the work she co-authored submissions to the development of competency standards by Engineers Australia, and the Review of the International Engineering Alliance Graduate Attribute and Professional Competency Framework. Male has conducted a program of research to inform enhancements to engineering education, collaborating with Engineers Australia, Australian Council of Engineering Deans (ACED), and Australasian Association for Engineering Education (AAEE).

In the Engineering Thresholds Project, Male identified the most transformative and critical engineering foundation concepts. In the Enhancing Industry Engagement in Engineering Education project for ACED, Male developed national guidelines. Male led competitively funded projects on Gender Inclusion of Engineering Students' Workplace Experiences, Intensive Mode Teaching, and Virtual Work Integrated Learning in Engineering. In every project she works with engineering educators to ensure relevance and to develop resources and capability.

Second, as Editor-in-Chief of the Australasian Journal of Engineering Education since 2019, Male has achieved the extraordinary result of leading the Journal to Q1 status. The Journal publishes research to inform enhancements to engineering education. Through the review process the Journal supports development of researchers. Male has led annual reviewing/writing workshops for engineering educators at AAEE Conferences, and for the AAEE Early Career Academy and Winter School. Male has additionally co-facilitated capability development workshops at international engineering education conferences (SEFI 2020 and REES 2019).

Third, during COVID-19, Male convened the Research in Engineering Education Symposium and AAEE Conference 2021, creating a novel structure involving repeated sessions and shared online platforms. Volunteers reported from initial to the repeat sessions, and additional volunteers reported from the repeat sessions the following morning. Fourth, in 2021 Male joined the University of Melbourne, and established the Teaching and Learning Laboratory in the Faculty of Engineering and IT - the only such laboratory in Australia. Male has recruited three lecturers and leads the laboratory in a program of research in engineering and computing education as well as capability development, support, and celebration to enhance education. The laboratory has six PhD students and Male supervises three PhD students at University of Western Australia. She established an international HDR symposium series between engineering education centres in Australia, Belgium and Netherlands (PRACtESE Symposia - LESEC (kuleuven.be)). Male examines PhD theses in engineering education, and reviews academic promotion applications in Australia and internationally. Professor Male is nominated for a career of significant contributions to enhancing engineering education in her institution, her region, and internationally).