



SCHOOL OF MECHANICAL,
INDUSTRIAL & AERONAUTICAL
ENGINEERING

UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG

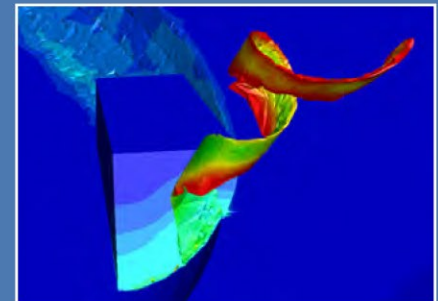
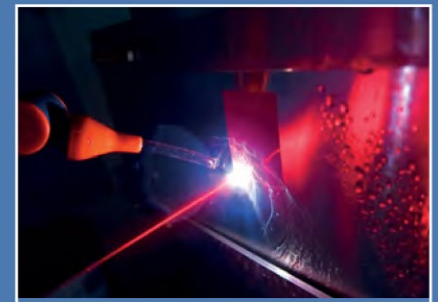
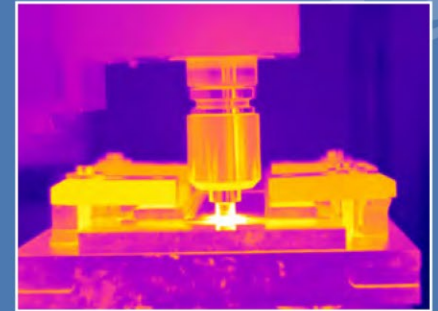
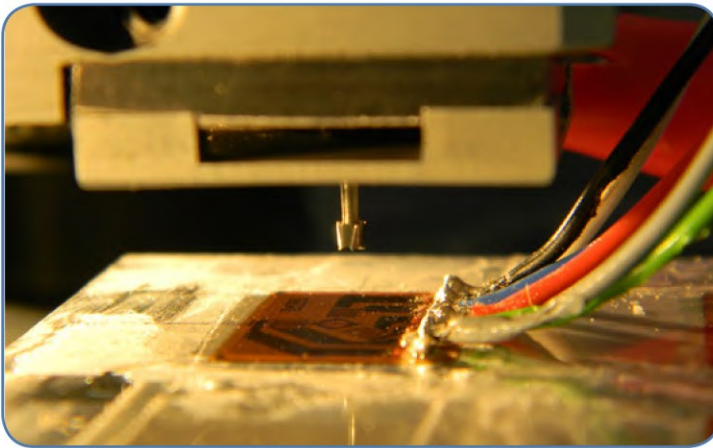


The School of Mechanical, Industrial and Aeronautical Engineering has well-developed capabilities ranging from experimental to simulation, computational and multi-objective optimisation of traditional manufacturing methods, as well as emerging technologies in additive manufacturing such as Cold Gas Dynamic Spraying and 3D Printing.

We are continent leaders in highly specialised manufacturing technologies such as titanium machining, Minimum Quantity Lubrication, and Laser Shock Peening for stress relieving. We also have capability in associated techniques for residual stress testing in conventional and composite materials.

We offer postgraduate short courses and degrees with specialised topics in composite materials, fatigue, fracture mechanics, Finite Element Analysis and systems engineering, amongst others, and can develop tailored short courses for internal development, all of which can contribute to Continuous Professional Development.

Our in-house workshop allows us to develop bespoke apparatus for consultation and postgraduate experimentation in real-time force and temperature process monitoring. As an established NRF, DST, the dti, TIA and THRIP partner, we can also offer access to international collaborators in the aerospace industry.



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TRAINING & HUMAN CAPITAL DEVELOPMENT