



YOUNG INNOVATOR AWARD: JOE ZADNIK

AUTOMATED MANUFACTURE OF HYPERSONIC ROCKET NOZZLES

ACS Australia has invested significantly into developing a deep knowledge base and industrial capability for the manufacture of ultra-high temperature (UHT) composites, which are capable of withstanding temperatures up to 2,500°C for hypersonic applications. Joe Zadnik has made a critical contribution, having supported the commissioning of niche equipment such as high temperature furnaces and filament winding equipment, and has developed novel, automated manufacturing techniques to produce lower-cost UHT composite components such as rocket nozzles. Joe's work is addressing an industry need by helping to build a sovereign industrial Defense capability for hypersonics.

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