

Laser Cladding Technology to Repair Aircraft Components

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Laser cladding is proposed to repair aircraft components by Defence Science and Technology Organization (DSTO), Australia. To successfully develop and apply this technology, many fundamental issues need to be solved. In this PhD research project, the PhD student will theoretically investigate the effects of laser cladding on the specimen, especially the deformation and residual stress due to laser cladding repair. The numerical results will be verified with experimental data provided by DSTO. Research scientists from DSTO will be involved in the supervision of this project. The PhD student must be good at solid mechanics, thermodynamics and interested in computational simulations. Due to security reasons, the PhD student should be an Australian citizen.