



John Barnes

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The Future of 3D Printing

It's difficult to open your online reader these days without seeing an article on 3D Printing but what is 'it' exactly? Now you can learn everything you wanted to learn but were afraid to ask your kids from a 'grown up' in this revolutionary technology.

John Barnes leads a team of engineers and scientists at the Commonwealth Scientific and Industrial Research Organisation. John will explain what the global picture looks like for 3D Printing (or additive manufacturing as he likes to call it) and then what is happening closer to home in Australia and the potential benefits this type of technology could have for industry in years to come. Australia has a wealth of titanium reserves and is working on up valuing that mineral wealth into finished products via 3D Printing.

About John Barnes

Mr John Barnes leads a group of research teams focused on revolutionary additive manufacturing technologies which are expanding Australia's titanium processing industry. He currently leads the Titanium Theme within the Future Manufacturing Flagship, overseeing scientists and engineers working to expand Australia's titanium processing industry through development of advanced additive manufacturing technologies and powder production technologies for titanium.

Projects within the Titanium Theme support the aerospace industry and the titanium fabrication industry, via initiatives such as the Victorian Direct Manufacturing Centre. Technologies developed within this theme support the growing Australian titanium manufacturing industry. Prior to joining CSIRO, Mr Barnes had extensive experience within the aviation, defence and aerospace industry in the United States (US), holding positions including Senior Manager, Manufacturing Exploration and Development, Lockheed Martin Aeronautics and Marine Engines Product Manager, Honeywell International. In his role at Lockheed Martin, he managed R&D (research and development) projects leading to the implementation of state-of-the-art technologies on the F-22 and F-35 stealth aircraft systems.

