# Superalloy Joining University Research Groups

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*The following are links to universities conducting research in joining of superalloys.*
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| PROFESSOR | UNIVERSITY | LINK/LOCATION | RESEARCH DESCRIPTION |
|---|---|---|---|
| **Dr. Amir A. Shirzadi** | University of Cambridge. The Joining Group. | Launch Site | Dr. Shirzadi is a specialist in joining advanced alloys. His research interests include developing and modelling new methods in diffusion bonding/brazing processes, as well as surface and joint interface modification in metallic materials. He is urrently working with major British and European companies in the field of microelectronics, transport and gas turbine power generation. |
| **Dr. Rob Wallach** | University of Cambridge. Department of Materials Science and Metallurgy. | Launch Site | Dr. Wallach's group focuses on joining materials, generally advanced but not exclusively so, with an emphasis on modelling processes, joint formation and predicting the properties of materials after they are joined. |
| **Dr Michael Preuss** | University of Manchester. School of Materials. | Launch Site | Dr. Preuss' research focuses on residual stresses, microstructure and mechanical properties in high temperature materials for the aeroengine and nuclear industry. One aspect of his work is combining residual stress with microstructural issues when processing or welding these materials. |
| **Dr. Mahesh Chaturvedi** | University of Manitoba. Manitoba Regional Materials and Surface Characterization Facility. | Launch Site | Dr. Chaturvedi's research interests lie in superalloys and grain-boundary engineering, and his work has led to breakthroughs in superalloy welding. |
| **Dr. Xiao Huang** | Carleton University. Engineering and Design Research. | Launch Site | Dr. Huang's research interests include: design and fabrication of advanced thermal barrier coatings; composite erosion and oxidation resistant coatings; sintering of porous media for high-temperature applications; wide-gap brazing of superalloys; diffusion bonding of titanium alloys; plasma spraying; development and optimization of welding processes; component failure analysis and prevention. |

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| **Dr. Wilfried Kurz** | Ecole Polytechnique Fédérale de Lausanne, EPFL. Computational Materials Science Laboratory. | Launch Site | Author of four books, Dr. Kurz published some 240 papers and patents, principally on the science and technology of solidification microstructures and processes. |
| **Dr. Tahir I. Khan** | University of Calgary. Mechanical and Manufacturing Engineering. Schulich School of Engineering. | Launch Site | Dr. Khan's current research includes diffusion bonding behaviour of dissimilar materials and advanced materials possessing dual phase structures or strengthening particles |
| **Dr. John C. Lippold** | Ohio State University. Industrial & Systems Engineering/Welding Engineering. | Launch Site | Dr. Lippold's research interests include: welding metallurgy; weldability testing; physical/welding metallurgy of structural steels, Ni-base alloys, and Al-alloys; failure analysis. |
| **Dr. Roger C. Reed** | *Univeristy of Birmingham* | Launch Site | Research interests include amongst other topics, the physical metallurgy of the superalloys, and their processing, properties and behavior under conditions pertinent to their application in gas turbine engines. |