

P R O F I L E



JEFFREY A. PFAENDTNER, P.E., PH.D.

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Jeffrey Pfaendtner is an accomplished materials engineer whose consulting expertise helps solve a wide variety of materials and process problems for Crane Engineering clients.

ROLE AND RESPONSIBILITIES

Jeff provides consultation to manufacturers in the development, selection, testing and characterization of materials, including metallic alloys, ceramics, composites and coatings. He also helps resolve materials problems that may result, for example, from a new manufacturing process or vendor, unexpected lot-to-lot variation in received materials, or failures of a product in the field.

Jeff collaborates closely with clients to understand their needs and address them with practical, cost-effective solutions. In addition, he provides litigation support and expert testimony as needed.

EXPERIENCE

A licensed professional engineer with more than 17 years of experience, Jeff has brought to Crane Engineering an extensive background in materials development, characterization and failure analysis in markets such as aviation,

aerospace and power generation. Previously, Jeff was employed by a leading global manufacturer of jet engines, where he developed and implemented state-of-the-art superalloy, composites and coatings technologies.

Earlier Jeff served as a research fellow at the University of Pennsylvania, where his work led to a better understanding of high-temperature, intergranular cracking in structural alloys. In conducting his testing and analyses, Jeff has used numerous techniques including high-resolution SEM, EDS, WDS, GDMS, TGA and XRD. A prolific contributor to technical publications and presenter at technical conferences, Jeff currently holds 23 U.S. patents related to high-temperature alloys and coatings.



EDUCATION AND INVOLVEMENT

Jeff received his doctorate in materials science and engineering from the University of Pennsylvania, where he also attained his bachelor of science in engineering degree in the same field. He is certified as a Black Belt in the prestigious Six Sigma methodology for process improvement and problem solving. Jeff is a member of ASM International and The Minerals, Metals & Materials Society.



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