



## Professional Summary

# JAN-WILLEM RENSMAN

## Principal Metallurgist and Welding Engineer

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Mr. Rensman joined Fluor 13 years ago after spending 10 years in materials research. He graduated from the Technical University of Twente in the Netherlands in 1997 with a master's degree in Mechanical Engineering. He graduated with honours from the Welding Engineering education of the Utrecht University of Applied Sciences to become a registered International Welding Engineer (certificate NIL LPI C 360).

During his research career, Jan-Willem developed a solid foundation in physical metallurgy and mechanical performance of metallic materials. At Fluor, most of his activities involve control of vendor fabrication documentation and writing materials, fabrication, and non-destructive examination specifications. Jan-Willem has authored more than 30 articles in peer-reviewed journals.

Two of Mr Rensman's interests are fracture-induced failure and thermal/corrosion degradation mechanisms. He has performed root cause analyses in the nuclear, construction, and refining industries. Currently, he is studying "special topics" that relate directly to the fast-changing Engineering, Procurement, and Construction landscape. Examples include environmentally assisted cracking of pressure boundary steels in ambient temperature high pressure hydrogen, non-backing gas welding of stainless steels, the effects of micro-alloying on pressure boundary steels in refinery applications, and (unexpectedly) brittle carbon steels.

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