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Generative AI in Ground Engineering – The Good, The Bad, and the Average

Ben Gilson
Associate, Arup

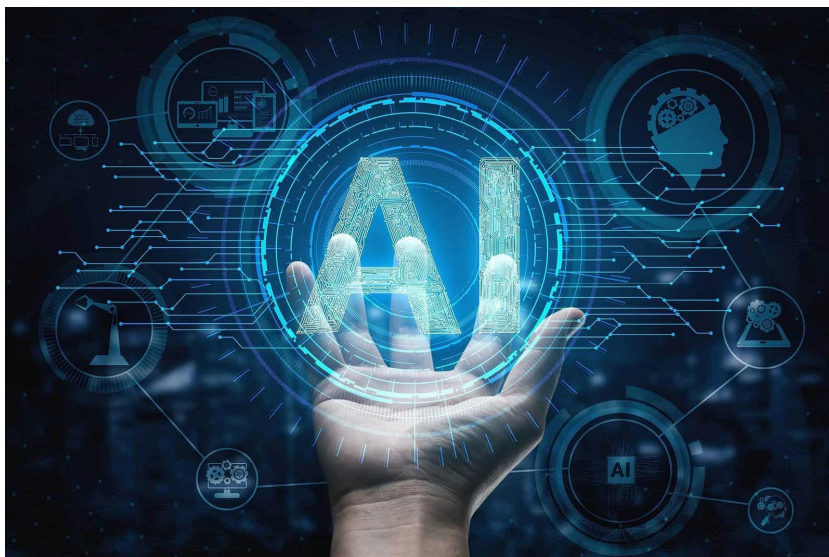
Tuesday 23rd September 2025

Online Only Talk: Starts at 6:30pm (Zoom room open from 6:15pm, see below for details)

The Western Regional Group is pleased to welcome Ben Gilson who will explore the transformative potential of Generative Artificial Intelligence (AI) within the field of ground engineering.

This talk will begin with looking at the fundamentals of Generative AI, its uptake, and its impact on productivity, Ben will show real-world use cases in ground engineering, such as information retrieval, content generation, and performing analysis. Future trends in Generative AI technology, the importance of selecting the right tools and targeting obtainable value are discussed.

Emphasis is placed on the human role in controlling AI processes and the need for reasonable skill and care to ensure effective and responsible use of AI technologies. Generative AI has arrived, however, significant widespread gaps in understanding of the potential opportunities and risks remain.



Ben Gilson is an Associate at Arup with over 15 years of experience in geotechnical engineering, specialising in geotechnical design, data management and ground modelling. Ben has led ground engineering teams on major infrastructure projects, including the Sydney Metro West Airport Station, DLR Thamesmead Extension, HS2 Euston, Crossrail 2, DLR Extension and the Euston Conventional Station redevelopment, and also energy and commercial projects, working closely with geotechnical engineers and geologists. As the Arup Ground Engineering Global Digital Leader, Ben is responsible for the data and digital technology development across the Ground Engineering Skills Network. Ben was an early adopter of Generative Artificial Intelligence and has led initiatives to achieve value through adopting Generative AI, and recently given a university lecture and conference presentations on the growing impact of this technology on the ground engineering industry.

Online Only Event; When: 23rd September 2025 at 6:30 PM. **Non-members welcome.**

Zoom Details: Zoom “room” opens from 6:15pm. Zoom Link:

<https://us02web.zoom.us/j/88172658777?pwd=Ka1yCIWD7syg48NIOcrk21M6GmW4PO.1>

e-mail

Get in touch

westernregionalgroup@gmail.com

www

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