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# DR BINESHIAN, HOSS

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## PROFILE

Dr Bineshian, Hoss is the Technical Director of AMBERG Engineering AG. He obtained his BEng with a first-class Hons in Civil/Mining – Tunnelling from SUT, MEng with a first-class Hons in Civil – Geomechanics from TMU, MPhil with distinction in Civil – Structural Engineering from UWA, and PhD with distinction in Civil – Geotechnics from UWA in Perth, Australia.

He worked for L&T and Geodata in principal positions of design and head/lead before joining Amberg in 2018, who developed an in-house design team of young engineers. He has an international reputation as a qualified detail-focused tunnelling and infrastructure expert with over 24 years of vast experience in design and construction at multidisciplinary consultancy and construction firms in four continents. He holds the post of Director (Technical) at Amberg and Vice President at ISEG.

He has developed the Bineshian Strength/Failure Criterion in 2000, the CQD (Concrete Quality Designation) in 2011, a strain measuring technique based on Digital Image Correlation in 2012, a CDP (Concrete Damage Plasticity) FEM constitutive model in 2013, the SRH System (Stress Release Hole) in treatment of squeezing/swelling/heaving ground in 2015, the GCD (Ground Conductivity Designation) testing method in 2017, the I-System (Index of Ground-Structure) comprehensive classification and characterisation system in 2019, the ViD (Vibration-induced Damage) assessment method in 2021, and the (I)-TM, a complete tunnelling method in 2021.

He has authored several peer-reviewed international journal and conference papers in the field of tunnelling, structures, geotechnics, and geomechanics. His book “Stress Non-uniformity in Concrete and Rock Structures” was published in 2014 in Germany. His comprehensive classification and characterisation system for ground released in the form of a professional software called “I-System Software” in 2020 in Australia.

He is highly competent in design with conceptual, computational, and analytical abilities, who has been succeeded with decisiveness in problem-solving of challenges and project management in the construction of infrastructures; a self-motivated productive and innovative team player having integrity and resilience.