

Senior Consultant

Expertise Numerical Modeling, Geotechnical Engineering, Disposal for

Radioactive Waste, Geomechanics, Saltmechanics, Constitutive Models

Education Dr.-Ing. (Civil Engineering), 2019

Technische Universität Braunschweig, Germany

Dipl.-Ing. (Civil Engineering), 2005

Technische Universität Braunschweig, Germany

Professional Affiliations Member: German Geotechnical Society

Working Group 1.6 Numerical Systems in Geotechnology

Member: International Society for Rock Mechanics

Professional Experience

2016 – Present ITASCA Consultants GmbH, Gelsenkirchen, Germany

Senior Consultant

2008 – 2016 Technische Universität Braunschweig, Braunschweig, Germany

Institute for Soil Mechanics and Foundation Engineering

Scientific Assistant

2007 – 2008 Technische Universität Braunschweig, Braunschweig, Germany

Institute for Construction Maintenance and Structure

Scientific Assistant

2005 – 2007 Kurt Fredrich Spezialtiefbau GmbH, Bremerhaven, Germany

Site Manager for Special Foundation Engineering

Project Experience

Numerical Analysis: Influence of former near-surface mining on a road construction project in the district Steinfurt, Germany (since 2020)

Consulting (Joint Venture): Technical support of BASE in safety analyses within the scope of the site selection process for a radioactive waste disposal (since 2018)

Numerical Analysis and Geotechnical Consulting (Joint Venture): Numerical studies of stability and usability for the infrastructure rooms of Konrad mine (since 2016)

Development of Constitutive Models: Implementation of a transversal anisotropic elastic and transversal anisotropic plastic constitutive model for layered rock in FLAC3D (2020)

Numerical Analysis: Comparative studies of rock mass characteristics and behavior of clay stone in Switzerland (2018)

Development of Constitutive Models: Implementation of a visco-plastic constitutive model for granular residue salts in FLAC3D (2016)

Numerical Analysis: Comparative studies of rock mass characteristics and behavior of clay stone in Switzerland (2016)