

Hydrogeological Engineer

Expertise Scientific Computing and Software Design/Implementation, Numerical Modeling of Fractured Media.

Education Ph.D. in Earth Sciences (hydrogeology),
University of Rennes, France, 2010

Engineering diploma in computer sciences (Master's degree),
INSA Rennes, France, 2005

Professional Experience

2010 – Present *Itasca Consultants S.A.S. Ecully, France: Research Engineer*

2007 – 2009 *Itasca Consultants S.A.S. Ecully, France & Géosciences Rennes,
University of Rennes: young engineer / Research student*

2005 – 2006 *Géosciences Rennes, University of Rennes, France: Research assistant*

Project Experience

DFN modeling and implication on flow and mechanical properties applied to the mining industry (MMT2 project).

Fracture data collection and analysis -- core logging and tunnel mapping (Kiruna, Sweden).

Discrete Fracture Network modeling (Geo-DFN), application to the site characterization at Forsmark and Simpevarp (Sweden), two candidate sites to the nuclear waste repository.

Simulation of primary fragmentation in jointed rock mass using the particle flow code in 3D (*PFC3D*).

Design/implementation of discrete fracture network module for *PFC 5.0*.

Design/implementation of discrete fracture network simulation, including geometry and flow. Application to the identification of main flow paths in DFN from hydraulic data (inverse problem).