

**Geomechanics, Software Development
Engineering Geology, Hydropower Engineering**

Expertise Rock Mechanics, Numerical Modeling and Software Developing, Hydropower Engineering

Education Ph.D. (Geotechnical Engineering), 1997
M.A.Sc. (Hydropower Engineering), 1994
B.A.Sc. (Hydropower Engineering), 1991
Wuhan University of Hydraulic and Electric Engineering, China

Professional Affiliations Member, Chinese Rock Mechanics Association

Professional Experience

2011 - Present *HydroChina - Itasca R&D Center, Hangzhou City, China*
Principal Software Engineer

2009 - 2011 *Itasca Consulting China Ltd., Wuhan, China*
Geomechanics Engineer / Software Engineer

2004 – 2009 *Itasca Consulting Canada Inc., Sudbury, Ontario, Canada*
Geomechanics Engineer

2002 – 2004 *University of Toronto, Department of Civil Engineering*
Research Assistant

2001 – 2002 *Wuhan University, College of Hydropower Engineering, Wuhan, China*
Associate Professor

1998 – 2001 *Wuhan University Consulting Centre, Three Gorges Project, Yichang, China, Consulting Engineer*

1997 – 1998 *Institute of Geological Science, Guangdong Province, China*
Geological Engineer

Project Experience

Rock Mechanics: Engineering consulting on stability evaluation of complex rock masses by means of site investigation, instrumentation and numerical modeling, including assessment of in-situ stress measurements and deformation measurements, simulation of rock-mass joint nets, design of excavating sequence and reinforcement of rock masses.

Software Development: Programming with C/VC++, Fortran, Java, OpenGL and 3D visualization techniques. Experience with designing CAD system for underground excavations and geological datasets, developing elastic-plastic FEM, and designing data management and analysis systems for geomechanics experiments.

Engineering Geology and Hydropower Engineering: Geological mapping and logging for the feasibility assessment and development of hydraulic power stations. Design of water power station and dam; stability analysis of various hydrostructures; analysis of deformation monitoring of dam.