
Geotechnical & Software Engineer

Expertise Geomechanics, Poro-Mechanics, Software Development, User Interface Design, Numerical Modeling

Education M.S. (Computer Science), 2003
M.S. (Civil Engineering), 2002
University of Oklahoma (Norman)
M.S. (Geotechnical Engineering), 1998
China University of Mining & Technology (Beijing)
B.S. (Civil Engineering), 1995
Anhui University of Science & Technology (Anhui, China)

Registration Licensed Professional Engineer (License No. 45947), State of Minnesota

Professional Affiliations Member, American Society of Civil Engineers

Professional Experience

2003 – Present *Itasca Consulting Group, Inc., Minneapolis, Minnesota
Geotechnical and Software Engineer*

1998 – 2003 *University of Oklahoma, Norman, Research Assistant*

1996 – 1998 *China University of Mining & Technology, Beijing
Research Assistant*

1995 – 1996 *Beijing Xinxing Geotech, Inc., Beijing, China, Geotechnical Engineer*

Project Experience

Numerical Modeling (Geomechanics): Consulting on the application of Itasca codes. Study of coupled time-dependent phenomena of stress, strain and pore pressure variations within borehole wall (SAC-3 and PBORE3D). Derivation and coding of poroelastic solution for hollow cylindrical geometry subjected to triaxial state of stress and pore pressure. Soil-nailing wall laboratory simulation study. Soil-nailing wall construction for a deep foundation pit.

Software Development: Maintenance and development of **FLAC** (Fast Lagrangian Analysis of Continua) and its Graphical User Interface. Client support in the use and application of **FLAC**. Simulator (PCORE3D) development for PoroMechanics Institute Consortium at the University of Oklahoma.

Programming Languages: FORTRAN, C/C++, Java and Visual Basic.