
Geotechnical and Mechanical Engineer

Expertise Mineral Science & Technology Engineering, Mechanical Engineering, Numerical Modeling

Education Dr. Eng. (Mechanical Engineering), 1994, Osaka University, Japan
M.Sc. (Mineral Science & Technology Engineering), 1983
B.Sc. (Mineral Science & Technology Engineering), 1981
Tohoku University, Japan

Honors Nikkei Shinbun Group Award for “Development of Multi-Face Shield Tunneling Machine,” 1987

Professional Experience

2006 - Present *Itasca Consulting Group, Inc., Japan Office, Research Center Shizuoka, Japan, Office Manager, Geotechnical & Mechanical Engineer, Software Developer*

2005 - Present *Tokai University, Japan Professor, Faculty of Marine Science & Technology*

2005 - 2006 *Itasca Consulting Group, Inc., Minneapolis, Minnesota, USA Consultant*
2000 - 2005 *Project/Software Engineer*

1998 - 2000 *University of Minnesota, Post-Doctoral Fellow*

1991 - 1998 *Hitachi Zosen Corporation, Osaka, Japan, Senior Researcher*
1983 - 1991 *Researcher*

Project Experience

Expertise in development of the PFC2D and PFC3D numerical modeling codes and in application of the codes to geotechnical and mechanical engineering problems, in the three-dimensional Distinct Element Method (DEM) simulations of bulk handling and in the development of construction and mining machinery, as well as in fluid-thermal coupling problems and multi-phase flow systems.

Consultant in numerical analysis and code development and liaison to HClTasca staff worldwide regarding geotechnical engineering, as well as mechanical engineering and earth sciences.