Visiting Scholar Research Applicant

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PERSONAL INFORMATION

First Name: Kun **Last Name:** Bo **Nationality:** P. R. China
Gender: Male **Birth Date:** 03/10/81 **Degree:** Ph.D.

EDUCATION

Jilin University, College of Construction, Changchun, P. R. China (2006-2009)
PhD of Geology Engineering
Area of Specialization: Air Drilling Technology and Computer Simulation
Dissertation: Research of Application and Drilling Tool Optimization of Reverse Circulation Drilling Technique with Hollow-Through DTH Hammer

Jilin University, College of Construction, Changchun, P. R. China (2003-2006)
Master of Geology Engineering
Area of Specialization: Drilling Technology and Fluid Simulation
Dissertation: Experimental and Drill Bit Flow Field Analyze of Run-Though DTH Reverse Circulation Drilling Technique

Jilin University, College of Construction, Changchun, P. R. China (1999-2003)
Bachelor of Geological Prospecting Engineering
Graduated with the higher score in the class

RESEARCH EXPERIMENCE

Jilin University, College of Construction, Changchun, P. R. China
Lecturer and researcher (2009-Present)
Conducted theoretical and field study of Percussive-rotary Drilling, Analyze mechanism of rock broken and core transportation, Conducted computer simulation and emulation calculation about Percussive-rotary drilling.
Drilling technology in the soil formation and Exploitation geothermal energy.

Jilin University, College of Construction, Changchun, P.R.China
PhD and Master Candidate (2003-2009)
Conducted theoretical and field study of Air Reverse Circulation Drilling, Conducted simulation of flow field.

RESEACH INTERESTING

- Percussive-rotary drilling
- Air reverse circulation drilling technology
- Exploitation and utilization of geothermal energy
- Computer simulation

HONOR& AWARDS

The Second Award, Award of science&technology of land and resources, Ministry of Land and Resources of the People's Republic of China.2009. Rank 8th.

The Second Award, Award of science&technology of Ji Lin Province,Jilin Provincial Science&Technology Department.2012. Rank 9th.

MAINPAPER&PATENT

Paper:

1.***Bo Kun***, Yin Kun,PengJianming. Reverse Circulation DTH Hammer Drilling Technique. Global Geology.No.4, 2011:259-264.

2. ***Bo Kun,***Yin Kun, Wang Maosen. Numerical Simulation for Bottom Hole Flow Field of Reverse Circulation Bit. Applied mechanics and Materials.Vol256-259,2826-2830，2013.

3. ***Bo Kun,*** Wang Maosen. Structural Simulation Analysis and Experimental Research of Reverse Circulation Bit. Mining & Processing Equipment.Vol.36, No24, 2008:9-12.

4.***Bo Kun,***Yin Kun, Wang Maosen. Investigation of the Application of Hollow-through DTH Hammer Reverse Circulation Drilling Technique in Mineral Exploration. Metal Mine. No.3, 2009:133-136.

5. Zhu Lihong, ***Bo Kun,*** Yin Kun, et al.Structural Optimization of Reverse Circulation Head on Model GQ89 DTH Hammer. Construction Machinery and Equipment,Vol.41, No.1, 2010:15-20.

6. Zhu Lihong, ***Bo Kun,*** Yin Kun, et al. Optimization design and finite element analysis on piston of GQ89 DTH.Construction Machinery. No.12,2009:86-89.

Patent

1. Concentric Simultaneous Casing Drilling Tool with DTH Hammer. ***Bo Kun,*** Jing Shigun, et al.((Disclosure 01/2011)
2. Reverse circulation drill bit with side suction , PengJianming, Yin Kun, Liu Jianlin, ***Bo Kun,*** et al. (Disclosure 12/2008)
3. Enhanced pumping mechanism for hollow-through DTH hammer, PengJianming, Yin Kun, Liu Jianlin, ***Bo Kun,*** et al. (Disclosure 12/2008)
4. Enhance pumping device on the hole bottom for hollow-through DTH hammer, PengJianming, Yin Qilei, Wang Maosen, ***Bo Kun,*** et al.(Disclosure 04/2008)

ABILITYS

- English：Well in reading and listening, good at written and spoken
- Computer Simulation and Calculation.
  Familiar with FLUENT/ANSYS
  Skilled in Oracle/Matlab
  Proficient in Excel/PowerPoint/Word
- Mechanical design
  Familiar with Auto CAD/Solidworks/Inventor.
- Teaching Courses. Such as, Mechanical Drawing, Engineering Expoitation and Water drilling, Percussive-rotary drilling.