



**Justin B Rittgers**  
Zonge Geosciences – Colorado  
Geophysicist  
Lakewood, CO

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## PROFESSIONAL QUALIFICATIONS

Mr. Rittgers has worked as a professional geophysicist for Zonge Geosciences, Inc. since graduating from the Colorado School of Mines in 2006. As a geophysicist in charge of field data acquisition and report preparation, he has participated in almost every project completed since he began work. He has applied geophysical methods including electrical, seismic refraction, surface waves, magnetics, electromagnetics and GPR to the solution of engineering and geologic problems. A notable project was a major mine development project for which over 50,000 line feet of seismic refraction data was acquired. Mr. Rittgers was responsible for field logistics, data quality, safety (in very challenging terrain), data analysis, preparation of the final report and ultimately, client satisfaction. In the short time he has been employed by Zonge, his responsibilities have steadily increased and now include proposal preparation, financial analysis, logistical planning, data acquisition, data analysis, and final report responsibility.

## EDUCATION & TRAINING

2006            B.S. Geophysical Engineering- Colorado Schools of Mines, Golden CO. 3.4/4.0 GPA  
                    Geological Engineering Minor  
2007            OSHA 40-hour training (8-hr. Refresher completed November 2007)  
2005            First Aid/CPR (Refresher completed March 2005)

## HONORS & AWARDS

National Dean's List, 2006  
2006 E-Days Engineer Award  
Devon Energy Scholarship, 2004-05  
CSM Dean's List, Spring 2003-2006  
CSM Honor Roll, Fall 2003  
NECC Graduate with Honors  
Eagle Scout, 1997

## EXTRA-CURRICULAR ACTIVITIES & AFFILIATIONS

President- Society of Student Geophysicists, 2005/2006  
Undergraduate Academic Advisory Committee, 2005/2006  
Society of Exploration Geophysics (SEG), 2003-2007

## EXPERIENCE & SKILLS

**Geophysical Project Design and Data Acquisition:** Experience in working with clients to design and carry out effective geophysical investigations for a myriad of applications including; groundwater detection and mapping, landfill delineation, UST detection, UXO detection, void detection, leaky dams, landslide/slope-stability, rippability, site classification, archeology, depth to rock and geologic mapping. Geophysical methods include P/S-wave refraction, passive and active surface-wave techniques, magnetics, downhole/crosshole, frequency/time-domain EM techniques, GPR, GPS, SP, IP and resistivity techniques.

**Geophysical Data Processing:** Experience in the reduction, processing, plotting and interpretation of geophysical data using programs including: SurfSeis, SeisImager, the SeisOpt suite, Interpex software, Geonics' software, AGI software, Leicca software, CorpsCon6, Oasis Montaj, Surfer, Grapher, CorelDraw, ImageJ, and Microsoft suite.

**Computer Programming:** Java, MatLab, HTML

## WORK EXPERIENCE

2006 – Present:            Zonge Geosciences, Inc., Lakewood, CO, Geophysicist  
6/05 – 1/06:              USGS Crustal Imaging and Characterization Team, Lakewood, CO, Project Assistant  
6/05 – 9/05:              CSM Mars/Rock Properties Research Lab, Lab Assistant  
2004 – 2005:              UXO Research, Project Assistant  
2002 – 2003:              NECC Peer Tutor Program, MCAS Preparation/Mathematics/Geology Tutor