

# Newmont Drillhole Logging System

Proposal for Colorado School of Mines MCS Field Session, Summer 2016

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## Introduction

Newmont Exploration annually drills approximately 600,000 meters (width of Colorado) of new holes in an ongoing search for mineral deposits. The majority of these are core holes that produce a solid “stick” of rock, which is geologically logged to help determine if there is economic mineralization present. The drill cores are also photographed and registered so they can be displayed with and compared to the geologic logging. Supporting this process Newmont would like a team to develop a web based application to visualize the photographs for a drill-hole and allow a geologist to interactively log information about what they see including rock type and minerals present. The application will also be expected to read/write data from an Enterprise Class backend database via web services that Newmont will provide.

## Objectives

- Flush-out the scope of work and develop a project plan including selection of appropriate supporting technologies and/or libraries.
- Develop backend objects to read/write drill-hole data, photography, and log templates.
- Develop a high-performance, interactive application to support basic drill-hole logging in a web browser.
- Document and present the completed project.

## Work Environment

The team can manage and work on the project from anywhere, but anticipate a number of face-to-face meetings and frequent electronic communication.

