PhD Student Position Announcement  
Economics and Business  
Colorado School of Mines

We are looking for a PhD student, starting in January 2020, for a project “Mapping, Modeling, and Disrupting Illicit Gold Supply Chains in Peru”, which is funded by the National Science Foundation. The candidate is expected to conduct research on the systems dynamics and optimization models to answer questions related to disrupting illicit gold supply chains. (S)he will be advised directly by Dr. Tulay Flamand (http://www.tulayflamand.net) and Dr. Sebnem Duzgun (https://mining.mines.edu/project-duzgun-h-sebnem/) and will work closely with Dr. Nicole Smith (https://mining.mines.edu/project-smith-nicole/) and the Payne Institute at Mines (https://payneinstitute.mines.edu). During his/her studies, the student will also develop strong ties to the NGO Sustainable Strategies Development Group (https://www.sdsg.org). Three years of funding is guaranteed for the candidate, including tuition and stipend. While financial support beyond the third year is not guaranteed, funding through grants or assistantships will be considered.

Qualifications

- A master’s degree in operations research, industrial engineering, computer science or similar disciplines
- Basic knowledge of systems dynamics theory and modeling
- Basic knowledge of mathematical modeling (e.g., linear programming, integer programming, etc.)
- Experience in coding in any programming language
- Interest in mineral supply chains
- Ability to travel and do fieldwork in both rural and urban areas of Peru
- A collegial person who gets along with people from different cultural backgrounds and with different perspectives

Preferred Qualifications

- Experience in data analysis
- Experience in quantitative modeling techniques
- Fluency in Spanish and English (written and spoken)
- Experience in social science methods

If interested, please send a cv, statement of interest/qualifications (2 pages max.), and a writing sample to tflamand@mines.edu by October 23, 2019.