



Terms of Reference Job Description

Post title:	National Technologist: Engineer
Project title:	GEF GOLD Mongolia-Philippines: “Contribution toward the elimination of mercury in the artisanal and small-scale gold mining (ASGM) sector: from miners to refiners”
Duration:	60 months (Full-time, Approx. 37.5 hours/week)
Expected Start Date	April 15, 2019
Duty station:	1 in Ulaanbaatar (MONGOLIA) & 1 in Manila (PHILIPPINES)
Salary:	Will be determined by experience and qualifications and paid in local currency.
Application Deadline	Open until filled

BACKGROUND:

Organizational context

Based in Victoria, Canada, the Artisanal Gold Council (AGC) is a not-for-profit organization dedicated to improving the working conditions, opportunities, environment and health of the millions of people involved in Artisanal and Small-Scale Gold Mining (ASGM) in the developing world. The AGC helps to improve the global gold sector by promoting better practices in ASGM through technology transfer, policy development and awareness raising. The AGC consists of a core staff, associates and a council of experts (Board of Directors) in areas of ASGM, economics, sustainable development, social responsibility, human and environmental health, and gold production and extraction. For more information about the AGC and its projects, please visit www.artisanalgold.org.

Project description

The Global Environmental Facility (GEF)-supported program “Global Opportunities for the Long-term Development (GOLD)” of the ASGM sector has been designed to address the key issues linked to continued mercury use and to provide sustainable development opportunities for the communities involved.

The objective of this project is to contribute towards the elimination of mercury in the ASGM sector by applying a supply chain approach from the miners to refiners. The project has four components. UN Environment is implementing Components 1, 2 and 4 on (i) formalization, (ii) finance and market access, and (iv) knowledge management, respectively, while UNIDO is responsible for Component 3 (iii) technology transfer.

The project is expected to demonstrate: (1) government incentives to formalize the ASGM sector in Mongolia and Philippines are increasingly adopted by miners, (2) national governments guiding the creation of ASGM fund to allow miners to invest in mercury-free technologies and access responsible gold markets; miners are able to sell their gold directly into a transparent supply chain, (3) reduced mercury releases by the ASGM sector in both countries, and (4) ASGM communities and government agreeing on an approach to reach all ASGM communities in each country.



MAIN DUTIES AND EXPECTED OUTPUTS/OUTCOMES

The technologist/engineer is a hard-working, creative thinker with a passion for the hands-on approach. Working under the supervision of the National Project Manager and in tandem with the other National and International Technologists, this role focuses on bringing the technical elements of mercury-free gold processing to artisanal and small-scale mining sites in country. The candidate will work with the International Technologists to customize project design, technology implementation, system planning and optimization, training, permitting, technical and project reporting, and other related subjects. The candidate will be equally comfortable in the office and the field where they will be exposed to extended field work, and a diversity of conditions and mining needs and practices.

Main Duty	Output	Timing
Planning, implementation, and execution of technical project elements in country	Technical project elements completed	Ongoing
Customizing in-country site selection, design, equipment installation, water treatment, tailings management and optimization of mercury-free processing systems (for both operation and as training platforms for miners)	Mercury-free processing systems operational on project sites	Ongoing
Conducting formal and informal capacity building with in-country partners and artisanal mining communities	Capacity built in communities	Ongoing
Contributing to assessment of the economic and environmental feasibility of potential mercury-free artisanal and small-scale mining operations by conducting surveys and studies of ore or mineral deposits	Feasibility studies completed	Ongoing
Identifying and evaluating means of safely and efficiently mining and processing the small-scale deposits using mercury-free and otherwise responsible methods	Evaluation of mercury-free methods documented	Ongoing
Working with international and local staff on all aspects of site pre-construction, as well as delivery, installation, and commissioning of mining and processing equipment	Pre-construction completed	Ongoing
Reviewing and delivering technical training modules on subjects such as operation, maintenance, materials and waste management, closure and decommissioning	Technical training modules completed	Ongoing
Communicating and collaborating with manufacturers, suppliers, shippers, in-country partners, stakeholders, government officials, and others	Successful communication with project partners	Ongoing
Writing reports, making presentations, translating (within capabilities), record-keeping, capturing photographic and video documentation	Reporting completed, project results documented in various media	Ongoing
Providing project technical reporting to high standards	Reporting completed	Ongoing



REPORTING

Regular communication will take place between the National Technologist/Engineer and National Project Manager, and, if needed, other AGC staff to ensure that the activities are undertaken in a satisfactory, timely and cost-effective manner.

The National Technologist/Engineer will be also in charge of drafting the technical elements of various project reports, which will be reviewed by AGC.

QUALIFICATIONS

- Master's degree in Mining or Mineral Process Engineering (at minimum)
- Able to work in country
- Experience in the planning, implementation, and execution of mining engineering projects
- Proven hands-on abilities
- Able to demonstrate that they can operate successfully working extensively in the field
- Good scientific and analytical understanding of mineral processing and effective optimization techniques
- Some interest in international development and working with communities in different cultural and economic settings
- Excellent written communications skills
- Able to communicate effectively, as well as present project results clearly
- Self-motivated, able to prioritize, and work with minimal guidance
- Strong commitment to and experience in developing effective relationships with key stakeholders and diverse teams
- Strong problem-solving and creative analytical thinking skills

LANGUAGE

- Fluency in written and spoken English is required.
- Knowledge of another local language is required.

To apply to this position please send a cover letter and resume, in English, stating the job title in the subject line, to careers@artisanalgold.org.