

Introduction and context

The Mining Open Innovation Program, Expande, is a public-private initiative designed and executed Fundación Chile. The purpose is to promote innovation and make possible a better future for global mini enhancing the mining ecosystem in Chile together with constituting a collaborative model that enables best solutions for the high complexity challenges of mining today and tomorrow.

In this context, **Codelco** has asked Expande to prospect the local and international ecosystem to identechnological solutions that respond to the technical challenge "Mechanized system for routing cinstallation of drainage pipes in heap leaching"

Description of the challenge

General Framework

In the operation of dynamic heap leaching plants, sequential tasks such as: discharge of leaching tailing repair and routing of platforms, installation of drainage systems, loading of fresh ore and installation irrigation systems are required.

The routing operations of heap leaching platforms are carried out to prepare the ground where the drainables are subsequently installed, which allow the channeling of percolated solutions from the heaps a reducing the phreatic level inside them. Currently routing tasks are carried out with mine equipment external services, while the installation of drainage pipes is carried out manually, with a high staffing, wh represents a low productivity and risk exposure.

Description of the challenge

Prospecting Objectives

Identify suppliers that provide routing services and installation of drainage systems on heap leach platforms in a mechanized way and minimal presence of field staff.

The technological solution should increase productivity per linear meter and per prepared platform surfaminimizing interference with other equipment and improving operational continuity.

ages of the process



Scouting

Prequalification

Client decides nex

tation and reception of jualification information





3

4

Analysis of proposed

5

Prospecting Prospecting and meetings

solutions and sending a report to the client

from 16-10 to 23-10-2019 from 29-10 to 12-11-2019

16

from 02-09 to 15-10-2019 from 24-10 to 28-10-2019 from 13-11-2 onwards

Documentation requested

To participate in the Scouting stage, please send the following information to innovacion.abierta@fch.cl:

- Company experience in technological solutions.
- Capabilities of the team of professionals.
- Technical background of the proposed solution.
- Degree of maturity of the proposed solution (according to Technology Readiness Level, TRL classification).
- Proposed Business Model: flexible, technology sales, services or other.

The information delivery format is free (pptx, pdf, image) and can be a brochure or presentation of the company's capabilities and technological solutions that apply to the proposed challenge.























