

Honours Project

Project title: Determining any Environmental Concerns with Glycine

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Project

Glycine is an amino acid that is used in Glycine Leaching Technology processes to leach base and precious metals. While glycine is known in the literature to be biodegradable and able to be used as a nitrogen source by plants (Mohammadipour and Souri, 2019; Noroozlo et al., 2019; Souri and Hatamian, 2019). What is not known is if it will cause any environmental problems when stored in tailings facilities.

The project aimed at quantifying if plants can grow and proliferate on glycine in tailings facilities that will pose any environmental problems like weed proliferation.

Funding:

Draslovka (our industry partner) extends an invitation to university students in their Honours level to join in the pursuit of advancing knowledge in Glycine Leaching Technology. Draslovka is willing to put forward AU\$5,000 towards each project. This will be for all incidentals incurred during the undertaking of the project.

They also offer more comprehensive, in-depth projects for those who have successfully completed their Honours and wish to delve deeper and do further studies on GLT. Feel free to inquire for further details.

References:

- Mohammadipour, N., and Souri, M. K. (2019). Effects of different levels of glycine in the nutrient solution on the growth, nutrient composition, and antioxidant activity of coriander (*Coriandrum sativum* L.). *Acta Agrobotanica* **72**.
- Noroozlo, Y. A., Souri, M. K., and Delshad, M. (2019). Stimulation Effects of Foliar Applied Glycine and Glutamine Amino Acids on Lettuce Growth. *Open agriculture* **4**, 164-172.
- Souri, M. K., and Hatamian, M. (2019). Amino chelates in plant nutrition: a review. *Journal of Plant Nutrition* **42**, 67-78.