



Master project in chemistry / chemical engineering (30 ECTS or longer; preferred start Q1 2022)

EasyMining is an innovation company dedicated to closing nutrient cycles. We are owned by the Swedish environmental company Ragn-Sells. EasyMining is passionate about inventing new technology that uses intelligent chemical solutions to close nutrient cycles. Our objective is to create new circular material flows in an efficient commercial way.

We are currently working on developing processes for the recycling of phosphorous as commercial grade fertilizers from sewage sludge ash. We are looking for an enthusiastic Master student who is interested in performing their Master degree project with us.

Project description:

The aim of the project is to study the differences between batch and continuous operated process steps for one of our phosphorous recycling projects. This includes:

- The optimization of the process steps (precipitation, dissolution and crystallization) in a continuous operated mode on laboratory scale
- Chemical analysis of samples
- Interpretation and documentation of the results
- Literature study including the comparison of the results with existing data from within the company

We offer

- Experience working in a fully equipped laboratory setting in Uppsala
- The state of the art in nutrient recovery
- Access and experience in using our analytical instruments
- Participation in topic related lectures and presentations
- Working together with experienced chemists from the R&D department as well as experienced process engineers from the Engineering department

Requirements

- Experience working in a wet chemistry laboratory with acids, bases and other corrosive chemicals. The project involves working with concentrated acids, bases and chemical compounds; and will require a significant amount of experimental work at EasyMining's Uppsala laboratory.
- An interest in circular economy and resource recovery

Contact

Please contact Angela van der Werf, Group and Laboratory Manager, at angela.van.der.werf@easymining.se