

Master Thesis: Study the cause and effect of FeO in iron ore pellets from Malmberget with help of multivariable analysis

The LKAB group for Product care in Malmberget has a thesis work which is focused on finding the cause for high FeO in the process and examine its effect on metallurgical properties in iron ore pellets.

The thesis work will be carried out completely or partly in Malmberget.

Background and purpose

Today there is a threshold value for FeO and occasionally we can see oversteps in that value in product. The cause and effect of this is today not fully understood. Attempts to link this value to production parameters have been made, but no direct link has been seen in these earlier attempts. Therefore, it is desirable to take a more holistic approach with, for example, multivariable analysis to study what affects the content and how/if it affects metallurgical properties in pellets

Description of the thesis work

Collection of data from various process steps and metallurgical tests as well as interpretation of results from multivariable analysis will take place in collaboration with production in Malmberget and research.

The work will last for 20 weeks. The work can be written in Swedish or English.

Application

To apply, please follow these steps:

Email to examensarbete@lkab.com and mark the subject line with the reference number.

We require the following information:

Contact details

CV

Personal letter

For more information regarding the thesis work contact:

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