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Master Thesis

Influence of acidified and alkalized slurry on fertilizer value, plant availability and soil characteristics

Project:

Slurry has become a problematic issue as overproduction causes severe damage to the environment and climate. Therefore, this study investigates aspects of an innovative concept based on alkalization and acidification of slurry, which reduces emissions and separates nutrients to produce mineral N and P fertilizers. We aim to investigate the produced fertilizer and the treated slurry for their fertilizer value, plant availability and a possible impact on soil parameters. Therefore, phenotypic parameters will be collected in a greenhouse on maize and ryegrass. In addition, analyses are carried out in the laboratory, for example, to chemically analyze the stress factor of plants.

Where:

INRES, Department of Plant Nutrition, Karl-Robert-Kreiten-Straße and Carl-Troll-Straße

Duration:

Starting from the end of April 2021

Benefits:

You will get a deep insight in practical greenhouse work and laboratory work, one-to-one supervision throughout the entire master thesis and a combination of the master thesis with a paid WHF position.

What are we looking for?

We are looking for enthusiastic, flexible, highly motivated student, with a strong interest in plant nutrition (greenhouse and laboratory work).