



Diploma Work (examensarbete) at OrganoClick AB

OrganoClick AB is a spin-off company from Stockholm University and the University of Agricultural Science in Uppsala. The company has developed a set of cost competitive and environmentally friendly chemicals that can replace non-environmentally friendly chemicals, reduce the amount of chemicals consumed and reduce the raw material need in the cellulose based industry. OrganoClick is currently using its technology for development of new applications within paper and packaging, textiles, wood, and biotechnology in collaboration with industrial partners. The company was recently awarded for "Sweden's best clean-tech innovation 2008" by a large consortium of Swedish governmental agencies and appointed as "Sweden's most promising start-up company 2008" in a competition held by venture capitalists and the Swedish industry.

Study and develop modifications of different fibers

OrganoClick is currently using its technologies for the development of environmentally friendly, permanent modification of paper fibers. We are collaborating with world leading paper companies and have a number of development projects ongoing. We are currently looking for a diploma worker (examensarbetare 30 khp) starting during the autumn semester.

Project goals

By using a novel method for modification of papers a variety of functions can be given to the product e.g. enhanced mechanical properties and water repellency. The goal with the project is to study and optimize reaction conditions for different paper grades (papers made from soft-wood, hard-wood, recycled pulp, etc). In your work you will be using OrganoClick's patented technology for esterification of cellulose based materials. You will also use analytical chemical techniques such as FT-IR, and NMR as well as functional tests for hydrophobicity and mechanical tests for characterizing the materials.

Requirements

You need a general knowledge in paper technology, cellulose biology, surface chemistry or organic chemistry. Knowledge in experimental techniques such as FT-IR, NMR and other analytical methods is desired. Preferred academic backgrounds are studies within paper engineering, surface science or chemistry. Previous experience from the cellulose based industry and/or textile industry is a merit but not necessary.

For more information or for sending an application please contact

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