Design and optimization of a protocol for synchronized development of elite Norway spruce cell lines for industrial scale *in vitro* propagation

Applied research project or MSc project

SweTree Technologies (www.swetree.com) is a plant and forest biotechnology company providing products and technologies to improve the productivity and performance properties of plants, wood and fiber for forestry, pulp & paper, packaging, hygiene, textile and other fiber related industries. SweTree Technologies has 32 employees in offices and laboratories in Stockholm, Uppsala and Umeå. SweTree Technologies in Uppsala primarily focuses on biotechnology-based propagation of elite trees. At this location, Swetree is setting up an industrial scale *in vitro* propagation technology for Norway spruce involving large scale propagation of somatic embryos in a custom-built liquid-based bioreactor system.

We are looking for a motivated graduate student to participate in a project to optimize the bioreactor system for synchronized development of somatic embryos at an industrial scale. The project involves planning and optimization of experiments in support of associated operations in the cell- and tissue culture laboratory and it is necessary that the applicant is experienced with sterile techniques. We believe this project will be suitable primarily for working experience but it may also serve as a more applied MSc project resulting in a technical publication. Excellent communication and documentation skills in English are required. Good Swedish is a plus.

The project starts from January 2011 in Swetree facilities at the Uppsala Business Park in Fyrislund Uppsala.

For more information, please email Ulrika Egertsdotter (ulrika.egertsdotter@swetree.com) or Sven-Erik Sköld (sven-erik.skold@swetree.com), or call +46 706 395 013.