



Postdoctoral fellowship

Within plant molecular biology, specializing in photosynthesis of microalgae

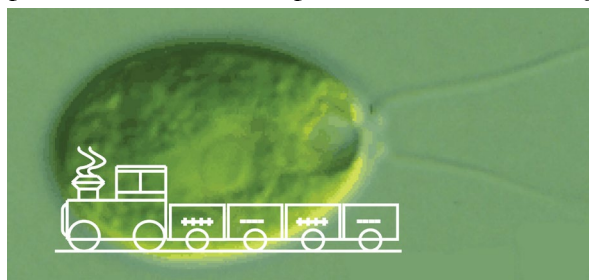
Department of Biological and Environmental Sciences
University of Gothenburg, Sweden.

Job description

Among photosynthetic organisms, microalgae are responsible for roughly half the daily carbon fixation that occurs on Earth. The green unicellular alga *Chlamydomonas reinhardtii* has been long used as a model organism for studying photosynthesis and chloroplast biology. The purpose of this project is to gain knowledge about *Chlamydomonas* ion transportome in the chloroplast with the following specific aims:

- Identify in silico the algal counterparts of *Arabidopsis* proteins involved in ion fluxes;
- Study their intracellular location;
- Study their role in photosynthesis and growth;
- Understand how they operate to regulate photosynthesis.

The focus will be on chloride, phosphate, potassium and magnesium ion transporters, and the project will use genomics, bioinformatics, reverse genetics, molecular and physiological methods. Deciphering the transport network of the green algal chloroplast will aid to understand its physiology and has potential for biotechnological applications.



Qualifications

An eligible candidate should hold a PhD in in plant molecular biology and should have published papers in this field in peer-review journals. The doctorate shall have been obtained no longer than three years before the expiration date of the application. Previous experience from projects on microalgae biology including *Chlamydomonas reinhardtii* is considered a merit.

Appointment time

The Postdoctoral fellowship is for two years and is financed by Carl Tryggers Foundation.

Starting date

20210301 or as soon as possible according to agreement.

More information

Contact Cornelia Spetea Wiklund (cornelia.spetea.wiklund@bioenv.gu.se).

Application procedure

The application should be written in English and should include the following:

- a letter of application detailing why you are interested in the position, and why you are particularly well qualified for it
- a list of your academic qualifications and other qualifications which you deem appropriate
- a summary of your PhD thesis
- a list of publications
- names, e-mail addresses and telephone numbers of two persons who are willing to provide a reference for you.

All applications must be sent electronically (doc/pdf format) by email to Cornelia Spetea Wiklund (cornelia.spetea.wiklund@bioenv.gu.se) at the latest 28st of Feb, 2021.