

Postdoctoral positions in photosynthesis research

Postdoctoral positions are available in Alizée Malnoë's lab in the Department of Plant Physiology, Umeå University, Sweden (<https://malnoelab.com/>). Initial appointment is for one year, extendable for one year by mutual agreement.

Umeå Plant Science Center

The Department of Plant Physiology is part of Umeå Plant Science Center (UPSC) which is one of Europe's strongest research centers in experimental plant biology (www.upsc.se). UPSC's research focuses on plant molecular biology, plant physiology, cell biology, tree biotechnology, ecophysiology and forest genetics and is supported by a large choice of specialist driven technical platforms. UPSC is a multicultural workplace employing 190 people from all over the world. Our lab and the broader research environment at Umeå University provide a friendly and supportive atmosphere and many opportunities for collaboration.

Project description

Our lab studies the molecular mechanisms that protect photosynthetic organisms against abiotic stress, in particular the sustained dissipation of excess light energy. We use a wide range of approaches including genetics, comparative genomics, biochemistry, biophysics and physiology primarily in *Arabidopsis*. We are looking for creative and enthusiastic colleagues prepared to work both independently and in collaboration with other lab members. Initial projects are most likely to focus on (1) using *in vitro* and *in vivo* methods to investigate the biochemical properties of molecular players involved in the sustained photoprotective component qH (Malnoë 2018 EEB), or (2) using comparative genomics and genome editing in Norway spruce to identify and characterize molecular players of sustained energy dissipation in evergreens. Over time, postdocs will be encouraged to develop new research directions reflecting their own interests, within the broad field of photosynthesis and photoprotection.

Competence requirements

You should have a PhD degree, or a foreign degree that is deemed equivalent, in biology, chemistry or relevant field. To be eligible, the degree should have been completed a maximum of three years ago, unless certain circumstances exist. The candidate should have demonstrated expertise in plant biology, biochemistry, molecular biology or computational biology. Interdisciplinary training and interests are welcome. The candidate must be proficient in spoken and written English.

The application should include:

1. A cover letter summarizing your research interests, experience and motivation for applying (max 2 pages),
2. A curriculum vitae (CV) with a publication list,
3. Names and contact information of three references.

Send your application to Alizée Malnoë, alizee.malnoe@umu.se