Post-doctoral position in Plant Developmental Biology

A post-doc position is available in the group of Rishi Bhalerao starting immediately to work on the role of secretion of auxin carriers and cell wall components in regulation of differential cell elongation in model plant Arabidopsis thaliana. The project builds on previous work in the lab: Gendre et al PNAS (2011), Boutte et al PNAS (2013) and Gendre et al Plant Cell (2013), Jonsson et al Plant Cell (2017). We have isolated several cell elongation mutants in Arabidopsis in which components of vesicular trafficking machinery are defective and which impact cell wall composition, hormonal responses and differential growth during apical hook development. The project aims to characterise these mutants using cell biological and biochemical and genetical approaches. The applicant must have a strong background in use of confocal microscopy and molecular biology and experience of working with Arabidopsis is essential.

The selected candidate will join a team that involves scientists from the group of Rishi Bhalerao at Umea Plant Science Center in Sweden and the group of Prof. Jinxing Lin at the Beijing Forestry University. The work will involve multidisciplinary approaches that range from cell biology, chemical genomics and modelling in the project. The applicant will work in Beijing and part-time in Umea in Sweden.

Umeå Plant Science Center (www.upsc.se) is one of the world leading centers for research in plant biology. UPSC has state of the art equipment in genomics, confocal microscopy, metabolomics and proteomics and excellent plant growth facilities. UPSC has 150 researchers including 50 post-doctoral fellows and equal number of Ph. D and Master students. UPSC has a very international environment with researchers from 37 countries. Umeå also provides close access to outdoor activities such skiing, hiking, kayaking, etc.

Interested applicants should send cv with statement of interest and description of prior research and names of 3 referees.

Please send your applications to Rishikesh P. Bhalerao
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