

Post doctoral position – Physiological phenotyping of high value crops

Aarhus University, Science and Technology, Department of Food Science, Research Centre Aarslev, offers a 2-year position at the post doctoral level within the area of physiological phenotyping of high value crop species, starting 1 April 2019.

Area of work

Phenotyping is the quantitative analysis of the set of observable characteristics (structure and function) of an individual plant resulting from the interaction of its genotype with the environment. So far, focus has been on studying acclimation and adaptation to abiotic factors using key components of fitness related traits (e.g. growth, carbohydrate allocation, secondary metabolites, morphology and photosynthesis) as well as stress indicators (e.g. chlorophyll fluorescence). Melatonin, N-acetyl-5-methoxytryptamin, is a hormone involved in plant responses to abiotic stress such as elevated CO₂ concentrations. In order to understand how plants respond to multiple abiotic stress factors it is important to combine physiological, metabolic and molecular phenotyping including the hormone melatonin. This will provide tools for future selection of more resilient and sustainable varieties of our high value crop plants.

The Post doc position is part of the Research Group 'Plant Food Climate' at the Department of Food Science.

Qualifications

- Relevant education from a University or other academic institution.
- A PhD degree (or equivalent experience) in crop physiology, preferably in high value crops
- Experience on photosynthesis and chlorophyll fluorescence
- Experience on metabolite analysis in relation to photosynthetic processes
- Documented expertise in running research experiments in protected cultivation eg glasshouse environments
- Documentation of good skills in communication of research results internationally as evidenced by a high rate of publication
- Experience in supervising students and teaching at a high academic level will also be a merit

Place of Work and area of Employment

The place of work is Kirstinebjergvej 10, 5792 Aarslev, Denmark and the area of employment is Aarhus University with related Departments. As from 1. November, 2019 the Department will relocate to a new site and the place of work will be Agro Food Park 48, 8200 Aarhus N, Denmark.

Further information on the position may be obtained from Rong Zhou, rong.zhou@food.au.dk

You can read more about the Department of Food Science at <http://food.au.dk/en/>

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the appointment committee if necessary, – the head of department selects the candidates to be evaluated. All applicants will be notified whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee, and each applicant is given the opportunity to comment on the part of the assessment that concerns him/her self. Once the recruitment process is completed a final letter of rejection is sent to the deselected applicants, including the main considerations emphasized during the selection process.

Formalities and salary range

Science and Technology refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#).

The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found [here](#).

Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Finance and the Danish Confederation of Professional Associations.

Application Deadline:
25 January 2019

Academic contact person:
Rong Zhou
Adjunkt
+4587158337

Vacant positions:
1

Hours per week:
37

Number of months:
24

Expected date of accession:
01/04/2019

Further information on qualification requirements and job content may be found in the [Memorandum on Job Structure for Academic Staff at Danish Universities](#).

Salary depends on seniority as agreed between the Danish Ministry of Finance and the Confederation of Professional Associations.

All interested candidates are encouraged to apply, regardless of their personal background. Research activities will be evaluated in relation to actual research time. Thus, we encourage applicants to specify periods of leave without research activities, in order to be able to subtract these periods from the span of the scientific career during the evaluation of scientific productivity.

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Read more [here](#). Please find more information about entering and working in Denmark [here](#).

Aarhus University also offers a Junior Researcher Development Programme targeted at career development for postdocs at AU. You can read more about it [here](#).

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 39,000 students (FTEs) and 8,000 employees, and has an annual revenues of EUR 884 million. Learn more at www.au.dk/en