

Postdoctoral plant scientist position to study climate adapted genes involved in seed dormancy

Molecular Biology and Genetics Dept. Bogazici University, Istanbul

Applications are invited for a Postdoctoral Scientist to work with Dr Steven Footitt to identify and investigate the role of climate adapted genes regulating secondary dormancy in seeds.

This is an exciting opportunity to work on a project designed to identify genes that contribute to reduced induction of secondary dormancy at high temperatures. Due to global warming, increases in soil temperature have the potential to increase induction of secondary dormancy in crop seeds resulting in reduced seedling emergence and ultimately reducing crop yield. Using the model plant, *Arabidopsis thaliana* we will identify genes that increase the thermal range for germination. This will advance our ability to breed the climate smart crops required in the future.

The work involves seed production and the establishment of dormancy cycling protocols, collecting and preparing seed samples for RNAseq, gene validation and cloning.

The postdoc will liaise with the project collaborator, Dr Stuart Lucas at Sabanci University (SUNUM) where the bioinformatics part of the project will be conducted,

Your qualifications and skills:

- Applicants **must** have a Ph D degree in plant sciences.
- Experience in seed biology is an advantage.
- Experience of the following techniques is also an advantage; RNA extraction, QPCR, and Gateway cloning.

Our expectation:

- The successful candidate will be expected to start work within one month of appointment.
- Due to the potential for COVID related travel restrictions candidates already in Turkey will be favoured.
- You should be highly motivated, and used to problem solving.

Position & Salary:

- The position is part of a TUBITAK funded project ending on 14th November 2024.
- The salary is 4500 TL/month.

Your application:

Please send the following as PDFs;

- CV including the names of two referees
- Cover letter explaining your suitability
- Degree certificates

Send applications and inquiries to Dr S Footitt (steven.footitt@boun.edu.tr).

My web page can be found at <http://www.bio.boun.edu.tr/?q=en/node/156>

Closing date for applications is 9 January 2022.