



WORK OFFER

Ref. No. HR-2022-OS-06

Employer Information

Employer: University of Osijek, Department of Biology
Biology
Cara Hadrijana 8/A

31000 Osijek
Croatia

Website: <http://www.biologija.unios.hr>

Location of placement: Osijek
Nearest airport: Osijek airport and Zagreb airport
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 66

Business or products: Higher education

Student Required

General Discipline: BIOLOGICAL AND BIOMEDICAL SCIENCES

Completed years of study: 3

Field of Study: Biology/Biological Sciences, General.;Biochemistry and Molecular Biology.;Botany/Plant Biology.

Student status requirements: required when nominated

Language required: English Good (B1, B2)

Required Qualifications and Skills:

Scientific Research

Other requirements:

Student should be motivated, responsible and precise in laboratory work. Also, student should have at least theoretical knowledge about methods and techniques that will be used in his laboratory work (protein extraction, UV/VIS spectrophotometry for measuring antioxidative parameters). Student should at least now how to:
- use a micropipette
- prepare solutions, buffers

Work Offered

The applicant will be included in ongoing research on the effect of abiotic (drought) and biotic (FHB) stresses on different wheat genotypes. This study includes measuring of the oxidative and antioxidative parameters in wheat. Oxidative stress parameters will be determined spectrophotometrically by measuring H₂O₂ content and lipid peroxidation levels. Plant antioxidative response will be determined by measuring antioxidative enzyme activities (catalase, superoxide dismutase, guaiacol peroxidase, and ascorbate peroxidase). Glutathione status in plant cells will be determined by measuring the content of total, reduced and oxidized glutathione and activities of enzymes involved in glutathione metabolism (glutathione reductase, cysteine synthase, glutathione peroxidase, glutathione S-transferase) using a spectrophotometric kinetic analysis. Besides, plant response will also be monitored at the transcriptional level, by measuring expression of genes using quantitative PCR.

Number of weeks offered: 4 - 4

Working environment: Research and development

Within the months: 01-MAR-2022 - 01-JUN-2022

Gross pay: 700 HRK / Week

Or within: 01-JUL-2022 - 01-AUG-2022

Deduction to be expected: /

Company closed within: -

Payment method / time of first payment: Bank Transfer /

Latest possible start date:

Accommodation

Canteen at work: Yes

Expected type of accommodation: Dormitory or apartment

Estimated cost of lodging: 1500 HRK / Month

Accommodation will be arranged by: IAESTE

Estimated cost of living incl. lodging: 3000 HRK / Month

Additional Information

Nomination Information

Deadline for nomination: 15-MAR-2022

Date: 23-JAN-2022

On behalf of receiving country: IAESTE Croatia