



Univerza v Ljubljani

Biotehniška fakulteta

PhD Position in Biosciences for MSCA-ITN “HiStabJuice”

Job Description

The Marie Skłodowska Curie Innovative Training Network “HiStabJuice” is inviting applications for a 36 month full time fixed term position as an Early Stage Researcher. This research project is a collaboration between 17 organisations, including 7 academic and 10 non-academic, from 7 countries (AT, DE, FR, IT, NL, PT, SL) across Europe. The research aims to analyse and compare in a normalised fashion the impacts of various available processing technologies on the stability of colour and nutrients in various fruit juices.

The successful applicant will be employed by University of Ljubljana in Slovenia, with planned intersectoral and interdisciplinary stays with collaboration partners totalling a maximum of six months.

The research and PhD thesis will be on “*Characterization of raw material for juice and nectar production with respect to nutrients and antioxidant capacities*”.

The ESR will:

- use strawberry as a typical representative for fruits with low colour stability
- collect strawberries of different cultivars, harvest point, harvest time and ripening stage and characterize them with respect to selected nutrients (phenols, sugars, acids, L-ascorbic acid) and antioxidant capacities
- evaluate the influence of the freezing process (temperature, velocity, duration, defrosting process) on the antioxidant capacities and selected nutrients
- evaluate the antioxidant capacity of fruits of different colour intensity and stability and identify underlying mechanisms.

Beyond the specific expertise gained during the ESR’s completion of their research work, this position offers an opportunity to gain international research experience, as well as an array of soft skills relevant to project management, research management and career development.

Applicant Description

Candidates must:

- hold a University Master’s Degree in any discipline that makes them eligible for a PhD in biosciences
- not have resided or carried out their main activity (work, study, etc) in Slovenia for more than 12 months in the three years immediately prior to 1st September 2021, unless as part of a procedure for obtaining refugee status under the Geneva Convention, but may be of any nationality
- be available to start on 1st September 2021
- have excellent English language skills
- be able to travel internationally on a regular basis, for example to attend regular project meetings or to take part in conferences
- be able to work in an international environment, be highly motivated and reliable, be able to work to strict deadlines

Preference will be given to candidates with experience in the chemical analysis of fruit and vegetables and researches in biochemical response of horticulture plants. A background in food chemistry, chemistry, analytical chemistry, food technology, food engineering or horticulture is preferable.

Research Fields

Food chemistry, primary and secondary plant metabolism, biochemistry, microbiology, enzymatics, analytical chemistry

Career Stage

According to EU HORIZON 2020 guidelines, Early Stage Researchers must have fewer than four years research experience at the date of employment (1st September 2021), and must not have been awarded a doctoral degree.

Benefits

Annual Salary: within the range of EU Marie Curie European Training Network programs
Monthly Mobility Supplement and Monthly Family Allowance (if eligible): according to the rules of EU Marie Curie European Training Network programs. Specifics available [here](#).

How to Apply

Please send a letter of motivation and your full CV, along with any supporting documents, as a single PDF to Prof. Jerneja Jakopič (coordination.histabjuice@tuwien.ac.at) before 17th May 2021. Please include “ESR4 Application” in the reference line. CVs should follow the Europass template available for free download at: https://www.eea.europa.eu/about-us/jobs/application-documents/europass_cv_template.doc.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 956257.