



Cyprus
University of
Technology

Studies and
Student Welfare
Services

Doctoral Vacancy Announcement form

Research Topic Title: Development of ai-driven analytical chemistry platforms for food quality and geographical origin

No. of Openings: 1

Description: The integration of AI-driven analytical chemistry platforms represents a transformative shift in food science, offering unprecedented precision in assessing both quality and geographical provenance. By leveraging sophisticated machine learning algorithms researchers can process complex multidimensional data generated by advanced chromatographic and spectroscopic techniques. The deployment of these platforms facilitates the systematic characterization of metabolomic profiles, enabling the quantification of specific biomarkers that define food quality indices and geographical authenticity. Consequently, these AI-integrated methodologies transition food analysis from reactive testing to a predictive framework, allowing for the precise verification of food quality and geographical origin. Ultimately, these platforms provide a robust basis for the certification and global promotion of local agricultural commodities and traditional foodstuffs.

Required Qualifications: Bachelor and Master of Science degree in Agricultural Sciences, Food Science and Technology, Chemistry, Pharmaceutical Sciences or related disciplines. Applicants must have an excellent working knowledge of the English language. Previous relevant research experience will be considered. Candidates will have to support interviews for the current position.

Funding: The candidate can potentially be employed as a teaching assistant, receive an internal scholarship from the University, based on his/her excellence, while he/she can participate in funded research projects which potentially can secure a scholarship.

Application:

Research Advisor: Dr Vlasios Goulas

Position: Assistant Professor

Email: vlasios.goulas@cut.ac.cy



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Research Topic Title: New insights into the integrated management of plant diseases.

No. of openings: One (1)

Description: The scope of the program is to develop novel monitoring practices and identification methods of significant plant pathogenic fungi, to enhance the adoption of timely and preventive management of plant diseases. Alternative and ecologically friendly management practices will also be studied and evaluated.

Required Qualifications:

- Bachelor's and master's degrees from accredited universities in Agricultural Sciences, Microbiology, Biology, Molecular Biology, or other related scientific fields.
- Enthusiasm and ability to conduct, organize, and coordinate field experimentation.
- Demonstrated ability to communicate effectively in English, both orally and in writing.
- Demonstrated capacity to undertake research initiatives and to work both collaboratively and independently.
- Demonstrated familiarity with molecular, metagenomic, microbiological techniques, and bioinformatics analysis will be considered advantageous.
- Previous research experience will be considered advantageous.
- Experience in writing scientific publications.

Funding: There is available funding.

Application:

Research Advisor: Loukas Kanetis

Position: Associate Professor

Email: loukas.kanetis@cut.ac.cy



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Research Topic Title: "Spectroscopic and Chromatographic Study of Bioactive/Anticancer Microcomponents of Olive Oil"

No. of Openings: 1 (one)

Description: Olive oil constitute the basis of the Mediterranean diet, and is intertwined with the history, development and culture of Cyprus. Although olive oil mostly consists of components such as triglycerides of fatty acids, it also contains notable amounts of microcomponents such as phenolic molecules which have antioxidant, chemotherapeutic and anticancer properties. The study will be conducted using mainly chromatographic and spectroscopic techniques.

Required Qualifications: Candidates for the above position must hold a Bachelor's and Master's Degree from an accredited University in one of the following fields: Chemistry, Food Chemistry, Food Science or other related discipline. Previous relevant research experience will be considered. In addition, candidates must have a very good command of the English language. The evaluation may also include a personal interview of the candidates. Candidates must provide the names of three professors from academia who can provide recommendations for the candidate when asked

Funding: Currently, there is no scholarship for this position. Partial financial support there may be offered for candidates qualified to (a) offer work as teaching assistants, (b) to receive internal scholarships awarded by the university on the basis of their excellence, and (c) participate in future research programs related to this field.

Application:

Research Advisor: Dr. Chryssoula Drouza

Position: Associate Professor

Email: chryssoula.drouza@cut.ac.cy



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Research Topic Title: Utilization endemic flora for the development of novel functional foods and antimicrobials agents

No. of Openings: 1

Description: The increasing demand for natural food additives and the rise of antimicrobial resistance have shifted scientific focus toward bioprospecting endemic plant species. Cyprus, a Mediterranean biodiversity hotspot, hosts over 140 endemic taxa, many of which remain under-explored for their bio-functional potential. This thesis aims to evaluate the antimicrobial effects against food-borne and probiotic microorganisms as well as phytochemical profile of selected endemic species. The study assesses the suitability of these species as foundational ingredients for novel functional foods and their potential as natural antimicrobial agents.

Required Qualifications: Bachelor and Master of Science degree in Agricultural Sciences, Food Science and Technology, Chemistry, Biology, Pharmaceutical Sciences or related disciplines. Applicants must have an excellent working knowledge of the English language. Previous relevant research experience will be considered. Candidates will have to support interviews for the current position.

Funding: The candidate can potentially be employed as a teaching assistant, receive an internal scholarship from the University, based on his/her excellence, while he/she can participate in funded research projects which potentially can secure a scholarship.

Application:

Research Advisor: Dr George Botsaris

Position: Associate Professor

Email: george.botsaris@cut.ac.cy