

Marie Skłodowska Curie Action – Postdoctoral Fellowship 2023
Expression of interest – Hosting offer
(MSCA-PF-2023)

Contact Person/Scientist in charge <i>(data of the principal investigator of the research group/lab or scientific supervisor)</i>	Name	ASLI
	Surname	BAYSAL
	Email	asli.baysal@itu.edu.tr/ baysalas@itu.edu.tr
Laboratory /Department /Institute /Centre / <i>(data of the centre/department where the fellow would be located)</i>	Name	Chemistry Dept/Science and Letters Fac.
	Address	ITU, Science and Letters Fac. Chemistry Dept. Maslak Istanbul-Turkey
Research Area <i>(Please select the research area: corresponding to the eight MSCA evaluation panels. You can select between one and up to three scientific areas per EO)</i>		Environment and Geoscience (ENV) Life Sciences (LIF) Chemistry (CHE)
Brief description of the Centre/Research Group <i>(max. 1,600 characters including spaces: information about the research centre or research group, scientific staff. Please include URL if possible)</i>		<p>Micropollutants Research Group aim to examine occurrence, interactions with living systems (bacteria and human cells) and biotic and abiotic degradation of various pollutants such as micro(nano)plastics, heavy metals, metaloxide nanoparticles in different environmental compartments (sediment, seawater, air etc.). To determine the pollutants in the environmental samples, various spectroscopic methods (FTIR, Fluorescence, Atomic Absorption Spectrometry) have been applied. To investigate the living system interactions, bacteria and human cell-based models have been used using various endpoints like activity, biofilm formation for bacteria, MTT, LDH, biochemical responses (protein, carbohydrate etc) for human cell-based methods, as well as cell-based and cell free oxidative characteristics have been used in the studies.</p> <p>Lab/scientific supervisor: Prof. Baysal https://www.researchgate.net/profile/Asli-Baysal-2</p>
Project description <i>(max. 1,800 characters including spaces: short description of the research project / research line where the fellow would be hosted and develop his /her project)</i>		<p>The group have already examined the following projects;</p> <ul style="list-style-type: none"> - Interaction of micro(nano)plastics with antibiotics under <i>in vitro</i> conditions - Biofilm formation and oxidative characteristics of sediment biotas with the impact of seconder plastics - Interaction of micro(nano)plastics from food packages with vitamins - Elemental characterization and microbiological interactions of PM2.5 from metro stations - Characterization of microplastics in indoor dusts and its environmental and human health risks: modelling and cytotoxicity - Sustainable solutions for heavy metal removal and biofilm formation in sediment using hydroxyapatite

Applications: documents to be submitted and deadlines

(Please indicate the documents that the candidate fellow should submit to establish contact: CV, letter of motivation, letter of references, etc., please indicate deadline. Recommended deadline: April 2023)

- Cv
- Letter of reference
- Deadline: July 2023