



ESR 2 | Ceramic-based structured materials for enzyme immobilization

ROLES AND RESPONSIBILITIES

A H2020 Marie Skłodowska-Curie Actions (MSCA) early-stage researcher (ESR) position is available in the frame of the Innovative Training Network (ITN) INTERfaces where you will contribute to the development of novel biocatalyst systems which have active phases (organic/inorganic) anchored within application tuned porous ceramic based supports.

The ESR fellow position is funded for 21 months of which you will spend 50 % of time at recruiting institution and 50 % of the time as secondments in the ITN INTERfaces partnering institutions. The recruiting institution is a start-up dedicated to development of novel inorganic materials through additive manufacturing routes and is located in Zaragoza (Spain). Whereas, the secondments will take place at the academic institutions, Complutense University of Madrid (Spain) and Graz University of Technology (Austria) under supervision of Dr. Juan M Bolivar and Prof. Bernd Nidetzky, respectively. The date of recruitment is planned for January 2022- latest on February 2022.

In the frame of this fellowship, you will also be required to participate in the training events and workshops organized by the ITN-European Industrial Doctorates (EID) program. As a Marie Skłodowska-Curie Actions (MSCA) fellow, you are also expected to contribute your time in the dissemination of your work result through public engagement and other scientific platforms.

The ESR work will focus on:

- (i) Development of suitable solid oxide material processing routes based on additive manufacturing for processing of different reactor configurations in flow.
- (ii) Design of optimized ordered porous solid oxide structures to optimize mass flow in enzyme-immobilized catalyst systems.

Recruiting Institution: AENEAM Advanced Membrane Technologies S.L. (Spain) Address applications to: Dr. Jonas Gorauskis (jonasg@aeneam.com)

REQUIREMENTS

- An MSc degree in materials chemistry, biotechnology or a related field.
- At the time of recruitment, the applicant must not have resided (or carried out his/her main activity e.g. work, studies, etc.) in Spain, for more than 12 months in the last three years immediately prior to the reference recruitment date.
- Knowledge on materials processing and material surfaces functionalization.
- Knowledge of catalytic process design and characterization.
- Interpersonal skills conducive to team work and group research efforts.
- Creativity, high motivation and conceptual thinking.
- An integrative and cooperative personality with excellent communication and social skills.
- Fluency in English – written and oral.

APPLICATION PROCEDURE

To apply for the position, kindly provide:

- (i) A letter of motivation including a one-page statement of your research interests, relevant skills and experience;
- (ii) A CV including publication list;
- (iii) Names and contact details of three referees willing to write confidential letters of recommendation.

Applications of women and disabled persons are particularly welcome.

All materials should be attached as a single PDF file (max. size 5MB). The PDF file name should include ESR2, your last name and first name (using "**ESR2_surname_firstname.pdf**").

DEADLINE

The closing date for all applications is 01st of January 2022 or as soon as suitable candidates have been identified.