



ESR 8 | Selective synthesis of 2,5-dihydroxymethyl furane (BHMF) catalyzed by self-sufficient immobilized multi-enzyme systems

ROLES AND RESPONSIBILITIES

The half of your PhD research (18 months) will be carried out at the company CASCAT GmbH (Germany) under the supervision of André Pick. The other half of the PhD work (18 months) will be at CICbiomaGUNE, San Sebastián (Spain) under the supervision of Prof. Dr. Fernando López-Gallego. The H2020 Marie Skłodowska-Curie Actions (MSCA) – Innovative Training Network (ITN) project starts in January 2020 (M1). PhD project is funded for three years and the date of recruitment, start of the PhD project, is planned for July 2020 (M7) latest on December 2020 (M12).

Your PhD degree will be awarded based on successful completion of the research work at the University of Basque Country (UPV/EHU). 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 PhD project's result through public engagement and other scientific platforms.

The PhD research will focus on:

- (i) Optimization of biocatalysts in context of improved activity, stability selectivity and also for better immobilization on solid supports,
- (ii) Development of screening systems for enzyme engineering,
- (iii) Coupling of enzymes onto solid supports for enzymatic conversion,
- (iv) Biochemical characterization generated immobilized biocatalysts,
- (v) Evaluation of the reaction system in terms of productivity and sustainability.

Recruiting Institution: CASCAT GmbH (Germany)

Address applications to: André Pick (pick@cascad.de)

REQUIREMENTS

- An outstanding M.Sc. degree in Biotechnology, Chemistry, Biochemistry or a related discipline,
- Eligible as a graduate student at the University of Basque Country (UPV/EHU),
- At the time of recruitment, the applicant must not have resided (or carried out his/her main activity e.g. work, studies, etc.) in Germany, for more than 12 months in the last three years immediately prior to the reference recruitment date,
- Research experience in molecular biology, structural biology, biocatalysis or related,
- Experience in analytical methods (HPLC, GC, MS, etc.),
- Ability to work in an international team,
- Inter- and multidisciplinary thinking,
- High motivation,
- 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; and
- (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 ESR8, your last name and first name (using “**ESR8_surname_firstname.pdf**”).

DEADLINE

The closing date for all applications is 01st of March 2020 or as soon as suitable candidates have been identified.



Innovative Training Network – European Industrial Doctorates

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