



## NOTICE

### BASIC INFORMATION

Position available within the research project entitled: “ Rational redesign of phenylalanine ammonia-lyases for reversing their natural selectivity”, project number PN-III-P1-1.1-TE-2019-2118

**Title\*:** *chemical engineer/Master student*

**Offer Description\*:** *Scientific work in the field of biocatalysis*

**Researcher Profiles \*:** *(se bifează opțiunea dorită)*

- |                                                                 |                                                     |
|-----------------------------------------------------------------|-----------------------------------------------------|
| <input checked="" type="checkbox"/> First Stage Researcher (R1) | <input type="checkbox"/> Recognised Researcher (R2) |
| <input type="checkbox"/> Established Researcher (R3)            | <input type="checkbox"/> Leading Researcher (R4)    |

**Research field \*:**

**Type of Contract\*:**

**Job Status \*:**

**Hours Per Week\*:** *10 h/week*

**Application Deadline \*:** *08.10.2020*

**Envisaged Job Starting Date:** *15.10.2020*

**Is the job funded through a EU Research Framework Programme? \***

**Is the Job related to staff position within a [Research Infrastructure](#)? *(se bifează opțiunea)***

**How to Apply \*:**

**Contact person\*:** Dr. Laszlo-Csaba Bencze

**E-mail adress\*:** [cslbencze@chem.ubbcluj.ro](mailto:cslbencze@chem.ubbcluj.ro), [cslbencze@gmail.com](mailto:cslbencze@gmail.com)

\* - Câmpuri obligatorii

Internal Application form needed (.pdf files) (se bifează opțiunea, dacă este cazul)

## HIRING INFO & WORK LOCATION

Number of positions available\*: 1

Company/Institute\*: Faculty of Chemistry and Chemical Engineering/Biocatalysis and Biotransformation Research Center

Department\*: Biocatalysis and Biotransformation Research Center

## REQUIREMENTS

**Required Education Level** (se completează unul sau mai multe câmpuri, după caz)

Main Research Field\*: Chemistry

Level\*: Bachelor Degree or equivalent

Main Research Field\*: Please Select

Level\*: Please Select

**Skills/Qualifications:** experiences and skills in enzymatic reactions, HPLC separations, enzyme immobilization, expression, isolation and structural analysis of recombinant proteins/enzymes, enzyme kinetic measurements are suitable for the position.

**Specific Requirements:** >1 year research experience in biocatalysis/enzymology is required

**Required Languages** english and romanian or hungarian

Language \* ENGLISH

Level\* Good

Language \* ROMANIAN

Level\* Good

**Required Research Experience** (se completează unul sau mai multe câmpuri, după caz)

Research Field \* Chemistry

Years of Research Experience \* 1 - 4

Research Field \*

Years of Research Experience \*

#### ADDITIONAL INFO

**Website for additional job details:** *(câmp opțional)*

**Benefits:** *(câmp opțional)*

**Eligibility criteria:** *Master students with tracked expertise in Biochemistry*

**Selection process:** step 1. eligibility test (eliminary); step 2. interview; step 3. selection process based on practical test from the following topics: 1. monitoring the phenylalanine ammonia-lyase mediated enzymatic reactions by HPLC, UV-spectroscopy. 2. use of immobilized enzymes in microreactor systems.

Minimal note of each selection step: 8 (at scale 1-10). The candidates are hierarchized based on the final note, which is calculated as the average of the notes obtained at selection steps 1,2,3.

**Additional comments:**

References for the topics of the practical test:

1. E.Z.A. Nagy, S.D. Tork, P.A. Lang, A. Filip, F.D. Irimie, L. Poppe, M.I. Toşa, C.J. Schofield, J. Brem, C. Paizs, L.C. Bencze, *ACS Catalysis* (2019) 9(9): 8825.
2. A. Filip, E.Z.A. Nagy, S.D. Tork, G. Bánóczy, M.I. Toşa, F.D. Irimie, L. Poppe, C. Paizs, L.C. Bencze, *ChemCatChem* (2018) 10(12): 2627-2633.