



Announcement of the Call for Applications under the Program:

Call No. 02_16_027 for International Mobility of Researchers in Priority Axis 2 of the OP VVV

Project Name: Mobility Support at UP

Supported Activity No. 1 - Working stays of post-docs from abroad in the Czech Republic – Faculty of Science

Mobility No. 11

Hosting Institution/Faculty/Department: Regional Centre of Advanced Technologies and Materials

Mobility Location: Palacký University Olomouc, Czech Republic

Duration: 18 month

Term: 09/2018 - 02/2020

Mobility description:

Lithium-ion batteries are an example of most studied and used batteries from the category of rechargeable batteries. The increase of the energy density of the battery is limited by the preserving capacity of the lithium and by the potential of the cell. Attention in the area of the design of lithium-ion batteries has been devoted to achieving large specific capacity, good cyclic stability and high-speed capacity in electrode materials. In lithium-ion batteries it is suitable to use iron oxides that theoretically yield large specific capacities. The use of carbon-based materials as a support for nanoparticles of iron oxide then improves electric conductivity and it is supposed that it will offer space for changes of pressure and volume, and prevents aggregation of nanoparticles, thus preserving high reversible capacity and cyclic performance. RCPTM started the development of new materials based on nanocomposites containing graphene and nanoparticles of iron oxides for electrodes of lithium-ion batteries which will also be the topic of the mobility.

The researcher is obliged to actively participate in a conference / seminar / workshop, etc. organized by the hosting institution at least once in every six months of the mobility.

Support for the Researcher's Family: YES

To make it possible for a researcher to stay in close contact with his or her family members the researcher can receive financial support amounting to 13 197 CZK per each month of mobility. A family member is considered to be a spouse or a person with an equivalent



relationship legally defined in the country where it was formalized; his or her dependent child or a dependent child placed into his or her foster care.

Salary Offered: from 62 953 CZK

Requirements for candidates:

Phase I

- The candidate is a post-doc in accordance with the definition; that is, a researcher up to 7 years after being granted the Ph.D. degree or its foreign equivalent¹ (equivalent to level 8 of ISCED) since the date of submitting the project application, and
- Has been active outside the Czech Republic in the field of science and research with the working time of at least 0.5 for at least 2 years (as of the date of submitting the project application) within the last 3 years, or was a Ph.D. student abroad, and
- Proves his/her publication activity (professional publications registered in the databases Web of Science, Scopus or ERIH PLUS, and at the same time publications in the form of “an article”, “book chapters”, “a letter” and “a review”) – at least 2 publication outputs in the last 3 years (as of the date of submitting the project application).

The candidates who fail to fulfil the criteria of Phase I set above will be excluded from the selection procedure. The candidates who fulfil the qualification criteria of Phase I proceed to the assessment within Phase II.

Assessment method:

Phase II

The fulfilment / non-fulfilment of exclusion criteria within Phase I, as well as the required expertise and requested documentation will be assessed by a committee consisting of at least three members.

The individual candidates will be assessed by the committee at a common meeting according to the following criteria:

Criterion 1:

The number and quality of articles in impact factor journals and other publications

Possible rating: min. 0, max. 40 points

Criterion 2:

Participation in scientific-research projects (international, national)

Possible rating: min. 0, max. 20 points

¹ The given period may be extended for the period of maternal and parental leave, long-term illness (for more than 90 days), nursing a family member (for more than 90 days), preparation for an attestation, and military service.



Criterion 3:

Benefits for the hosting institution within the respective field of study (scientific field) the candidate is applying for

Possible rating: min. 0, max. 20 points

Criterion 4:

The need for research in the particular field of study (scientific field)

Possible rating: min. 0, max. 10 points

Criterion 5:

Recommendation by the previous supervisor or the Head of the workplace/scientific-research team where the candidate operates

Possible rating: min. 0, max. 10 points

The maximum rating achievable is 100 points. When assessing the candidates with regard to criteria 1 and 2, the particular candidate achieves the number of points for fulfilling the particular criterion in accordance with the objectively identifiable value set above. When assessing the candidates with regard to criteria 3, 4 and 5, each member of the selection committee awards the points to the particular candidate individually at his/her discretion. The final number of points for the particular candidate is the arithmetic mean of the rating awarded by the individual committee members. The winner of the selection procedure is the candidate having achieved the most points in the assessment of the individual criteria.

A written record of the assessment procedure will be made, including the information about the composition of the assessment committee, the criteria of candidate assessment, the reasoning of ratings, and the name of the winner.

The results of the assessment procedure will be published on the UP website.

Documents requested:

Professional CV

Diploma or nostrification

Document(s) proving research activity outside the Czech Republic

A list of publication outputs in the last 3 years

A list and a brief description of scientific-research projects (national and international) where the candidate collaborated on in the last 3 years

Cover letter including specification of the benefits for the hosting institution

Brief description of the research the researcher intends to work on; justification of its need in relation to the research field



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Recommendation by the previous supervisor or the Head of the workplace/scientific-research team where the candidate operates

Mobility schedule approved by the hosting institution

All documents listed above must be submitted in either Czech or English.

Successful candidates shall not be working at any other university or institution at the time of the expected beginning of their mobility. Any exception has to be requested within the admission procedure.

The applications may be submitted in the electronic form to the address ivana.saitzova@upol.cz until 30. 3. 2018.