



EVROPSKÁ UNIE
Evropské strukturální a investiční fondy
Operační program Výzkum, vývoj a vzdělávání



MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY

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

Project Name: Mobility Support at UP

Supported Activity No. 1: Mobility at the Department of Psychology, Faculty of Arts

Mobility No. 16

Hosting Institution/Faculty/Department: Faculty of Arts, Department of Psychology

Mobility Location: Palacký University Olomouc, Czech Republic

Duration: 21 months

Term: September 2018 – May 2020

Mobility description:

The post-doc stay will focus on the implementation of research, exchange of know-how, preparation of joint projects and teaching in the field of automotive, in particular on safety regarding ITS-ADAS (advanced driver-assistance systems) and electromobility.

The main objective of the mobility is to describe the process and the rate of driver's (human's) adaptation to assistance systems designed for motor vehicle drivers, especially from the viewpoint of traffic safety, i.e. what positive or even negative impacts these systems have on traffic safety. The theoretical starting point are driver behaviour models (for instance the Risk homeostasis theory, Wild, 2000; Compensation model, Taylor, 1964; Risk Threshold Theory, Klebersberg, 1977). These models predict that decreasing the burden (and risk), e.g. by using an assistance system, results in compensation in another part of driver's behaviour (for example by driving faster or attending to an activity unrelated to driving). According to the above mentioned models and examples from the practice (for instance the introduction of ABS or the central brake light), the impact of these



systems on traffic safety is influenced by numerous factors, and only a reasonable rate of acceptance of the system by the driver brings the positive impact on traffic safety. The presence of an assistance system may result in the increased subjective driver safety (i.e. the driver relies on a particular system) and decreased attention and focus on driving. In cases where the functionality of a particular system is limited (i.e. the assistance systems only work under certain conditions and with less than 100% functionality), overestimating the functionality by the driver may lead to decreased traffic safety. Particular attention will be paid to ADAS focused on the safety of vulnerable road users; how much the proportional representation of this group of road users from the total amount of deaths or severe injuries is increasing.

Concerning electromobility, the main focus of the mobility will be the issue of users' (customers', drivers') preference and acceptance when changing from a vehicle with a combustion engine to an electric vehicle. Over the next ten years we expect a growing pressure on the penetration of electromobility in the Czech environment; the data regarding preferences of the Czech consumers are therefore crucial. Also, we will focus on other impacts of the penetration of electric vehicles into the Czech vehicle fleet, especially from the viewpoint of safety and user comfort. Emphasis will be drawn on urban mobility (especially because in the coming years, electric vehicles will provide an alternative particularly for shorter drives around the towns), and vulnerable road users and their safety.

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: 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

Criterion 3:

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

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.



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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

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



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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 pavlina.ziskova@upol.cz until 9.4.2018.