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SELECTION PROCEDURE

“1-FAV 01a”

The Dean of the Faculty of Applied Sciences of the University of West Bohemia in Pilsen (hereinafter referred to as the “Announcer”) announces the opening of a selection procedure for **academic workers** for the following positions:

Academic Worker – Research Assistant

Research focus of the expert team: Sensor data fusion for estimation

The job position is fundamental and applied research in the area of state estimation of stochastic dynamic systems with a special focus on fusion of sensor data. The system for data fusion can have centralized architecture, which corresponds to a single nonlinear filter, decentralized or distributed architecture. The aim is to analyze possibilities of adaptation of local nodes comprising nonlinear filters with respect to a global optimization objective. The adaptation can be concerned with parameters or structure of the local nonlinear filters. The local filters can be either simple filters such as the extended Kalman filter or the unscented filter or advanced filters such as the particle filter or the Gaussian mixture filter. The research can be focused either generally or with a special focus on special applications such as tracking or navigation.

Description of the work position:

Selected researchers will strengthen an existing top-quality research team of the University of West Bohemia in Pilsen. Their main tasks will be to engage in the activities of the team of experts under the guidance of a mentor and to fulfill tasks specified by the R&D activity plan. Their own scientific work will include publication of R&D results in prestigious foreign impact journals, participation in major conferences, obtaining applied results, involvement in national and international research projects, and organization of the professional life at the workplace (seminars, conferences).

The mentor of the position is doc. Ing. Ondřej Straka, Ph.D., e-mail: straka30@kky.zcu.cz,
<https://www.zcu.cz/about/people/staff.html?osoba=17765>

Qualification Requirements:

- a properly completed Doctoral Study Programme at university or higher education institution in the Czech Republic or a properly completed similar Study Programme abroad recognized in accordance with Act No. 111/1998 Coll., on Higher Education Institutions and on the Amendment and Supplementation of Other Acts (Higher Education Act), as amended, with the study completion date after **1 July 2011¹**,

¹ The stated period may be extended because of maternity leave or long-term illness (longer than 90 days), a family member treatment (longer than 90 days), exams preparation, or military servis.



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- the candidate for the position must be a researcher from abroad, i.e. a researcher who has worked outside the Czech Republic for at least two years during the prior three years in the field of research, including at least half work load, or has been a Ph.D. (or similar forms) student abroad; citizens of the Czech Republic are not excluded,
- the candidate must provide at least 2 publication outputs over the last 3 years²,
- good knowledge of English (at least at the CAE level or its equivalent),
- experience with research on the research topic of the specialist team.

The position can be held only by a candidate working full time for the period of up to 6 months.

Salary proposed: 63 000 CZK (gross monthly wage; workload 1.0 – 40 hours/week)

Expected commencement of work: 1 September 2018

Required Form of the Applicant's Application:

- structured curriculum vitae, relevant supporting documents proving the Applicant's activity outside the territory of the Czech Republic to the extent corresponding to the qualification requirements,
- a copy of the documents proving achieved education (Ph.D. diploma or its equivalent),
- copies of documents proving the achieved level of the English language (CAE level or its equivalent),
- full bibliographic data of articles published in impacted journals (please provide, in particular, articles relating to the orientation of the working position, including the impact factor of the journal at the time of their publication),
- complete bibliographic data of works published in proceedings of significant (referred to in WoS or SCOPUS) international conferences relating to the focus of the activity at the listed position,
- overview of research teams (especially international) with whom the Applicant has worked so far, including the projects in which the Applicant was involved,
- overview of collaboration with the application sphere and achieved application outputs.

Note: The reference date for values of impact factors and inclusion of a work in proceedings and/or relevant databases is: 23.5.2018

For detailed information, please refer to <https://projekty.zcu.cz/mobility-3.0-homepage.html> website.

Deadline for publishing: 23. 5. 2018

Period for submission of applications is from 23. 5. 2018 to 23. 6. 2018.

Candidates should send their applications to the attention of:

² Professional publications registered in the database Thomson Reuters Web of Science, Scopus, or Erih Plus as well as such publications as "article", "book", "book chapter", "letter", and "review".



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306 14 Pilsen? Czech Republic

The application form, together with all the required documents, is to be submitted electronically. If you have any technical questions, please contact the mentor of the relevant position.