



## SELECTION PROCEDURE “1-FAV 01”

The Dean of the Faculty of Applied Sciences of the University of West Bohemia in Pilsen (hereinafter ) 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](mailto:straka30@kky.zcu.cz)

#### **Qualification requirements:**

- a successfully completed doctoral study programme at a university or institution of higher learning in the Czech Republic (excluding UWB) or a successfully completed similar study programme abroad recognized under Act No. 111/1998 Coll., on Higher Education and the Modification of and Amendments to Other Acts (the Higher Education Act), as amended, with the date of completion of study after **1 July 2011**,
- good knowledge of the Czech or English language (CAE level or equivalent),
- experience with research in the area of research the expert team focuses on.



**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**

**Requested form of a candidate's application:**

- structured curriculum vitae,
- copies of documents proving formal qualification (diploma certifying the successful completion of a PhD programme, or its equivalent),
- copies of documents proving the knowledge of the Czech or English language achieved (CAE or equivalent),
- full bibliographic data of articles published in impact journals (please list primarily articles related to the focus of the position applied for, including the impact factor of the journal at the time of publication),
- full bibliographic data of works published in proceedings of significant international conferences (WoS or SCOPUS) related to the field of research of the position applied for,
- overview of research teams (especially international) with whom the applicant has worked so far, including projects in which he/she was involved,
- overview of collaboration with the application sphere and application results achieved.

*Note: The reference date for values of impact factors and inclusion of a work in proceedings and/or relevant databases is: **15.5.2018***

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

**Deadline for publishing: 15. 5. 2018**

**Period for submission of applications is from 15. 5. 2018 to 15. 6. 2018.**

**Candidates should send their applications to the attention of:**

-mail: [kozikova@rek.zcu.cz](mailto:kozikova@rek.zcu.cz), tel: +420 377 631 032

University of West Bohemia Section of Vice-Rector for Research and Development, Univerzi  
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.