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by Alexandra Radics

REF. N. 08_18

Job Description:

Job title: 1 PhD position in Intelligent Manufacturing

Country: Belgium

City: Leuven

Name of Organisation: Dept of Mechanical Engineering - KU Leuven

Main research fields: Engineering **Sub research fields:** Precision engineering

Main research fields: Technology **Sub research fields:** measurement technology

Application deadline: 15/05/2018 23:59 Europe – Brussels

This position in part of the “Science 4 Refugees” initiative:

The European Commission has launched the Science4Refugees initiative to help refugee scientists and researchers find suitable jobs that both improve their own situation and put their skills and experience to good use in Europe's research system. Science4Refugees matches talented refugees and asylum seekers who have a scientific background with positions in universities and research institutions that are 'refugee-welcoming organisations' and that have suitable positions available, including internships, part-time, and full-time jobs.

Required Education:

Level: Master degree

Fields: Mechanical Engineering

Language skills:

Required languages: English

Level: Good

Required research experiences:

Experience in machining or related production processes.

Application details:

Topic: Process sensing and decision-making for advanced machining processes

Job description:

In the context of digitalization and the fourth industrial revolution, data collection and analysis will play a critical role. In addition, a fundamental understanding of the physical phenomena occurring at the interface between energy source and workpiece during machining, and their correlation with raw sensor data, will be required in order to make efficient use of the data collected for process control. The project will therefore focus on the practical interpretation of the manufacturing process data collected through non-contact sensing techniques and the development of procedures to integrate these data in a physics based process control strategy.

Job starting date: The position is available immediately

Duration of job: 2 years; and will be extended to four years on the basis of satisfactory performance and availability of funding.

Status: Full- time

Salary: An attractive salary according to your experience and the relevant university salary scales

Benefits:

- industry relevant experience through our partnership with Flanders Make;
- the opportunity to develop teaching and management skills;

Additional requirements:

Knowledge of Dutch is an advantage.