NEW TECHNOLOGIES RESEARCH CENTRE
UNIVERSITY OF WEST BOHEMIA
IN PILSEN

The Director of New Technologies – Research Centre (NTC)

announces a recruitment procedure

in the field of Experimental Materials Physics

for the position of Researcher (R2)

in the Department of Advanced Materials (RAM)

Requirements:

- Ph.D. in solid-state Physics or materials science by the time of taking up the position.
- At least three years of experience in research and development.
- Good organizational and communication skills.
- Proven experience in project implementation and international collaboration.
- Working flexibility.
- Proficiency in written and spoken English at level B2.
- Clean criminal record and good moral standing.

Key Areas of Expertise for the Position in Experimental Materials Physics and Advanced Characterization Techniques:

- Experimental investigation of the structural, electronic and optical properties of advanced materials using microscopy, diffraction, spectroscopy and photoemission techniques.
    - Angle-resolved photoemission spectroscopy (ARPES/SARPES).
    - Photoemission electron microscopy and spectroscopy using NanoESCA.
    - Processing, analysis and interpretation of experimental data.
    - Operation, optimization and further development of experimental instrumentation.
    - Experience with experiments at synchrotron beamlines, particularly in photoemission spectroscopy (ARPES/SARPES) or other techniques for investigating the electronic structure of materials.
    - Ability to prepare samples, select experimental parameters, perform measurements, and analyze and evaluate the acquired data.

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- Experience in preparing beamtime proposals and collaborating with beamline scientists is an advantage.
- Knowledge of additional techniques available in the optical laboratory, such as Raman spectroscopy and Fourier-transform infrared spectroscopy (FTIR), is an advantage.
- Knowledge of molecular beam epitaxy (MBE), X-ray diffraction (XRD), scanning electron microscopy (SEM) and transmission electron microscopy (TEM) is an advantage.

We offer:

- Interesting and responsible work in an inspiring university environment.
- Pleasant working environment and the stability of a secure employer.
- Opportunities for further professional development.
- Employee benefits (subsidized meals, pension plan contribution, 6 weeks of paid leave).
- Working hours: full-time position (40 hours per week) or as agreed.
- Expected start date: 1. 12. 2026.

Salary:

- In accordance with the salary regulations of the University of West Bohemia in Pilsen (UWB).
- An incentive system offering financial bonuses for good performance.

UWB / NTC is committed to equal opportunities and the principle of gender equality.

https://www.ntc.zcu.cz/en/About_us/Gender_Equality

Information on the processing of personal data of job applicants is available here:

https://www.zcu.cz/en/University/GDPR/Information-for-the-individual-data-subject/job_applicants.html

Written applications, together with your motivation letter and structured CV, must be submitted **no later than 18 November (inclusive) 2026** to the following email addresses: educhon@ntc.zcu.cz and dlavicka@ntc.zcu.cz.

Mgr. Petr Kavalíř, Ph.D., MBA

director NTC

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