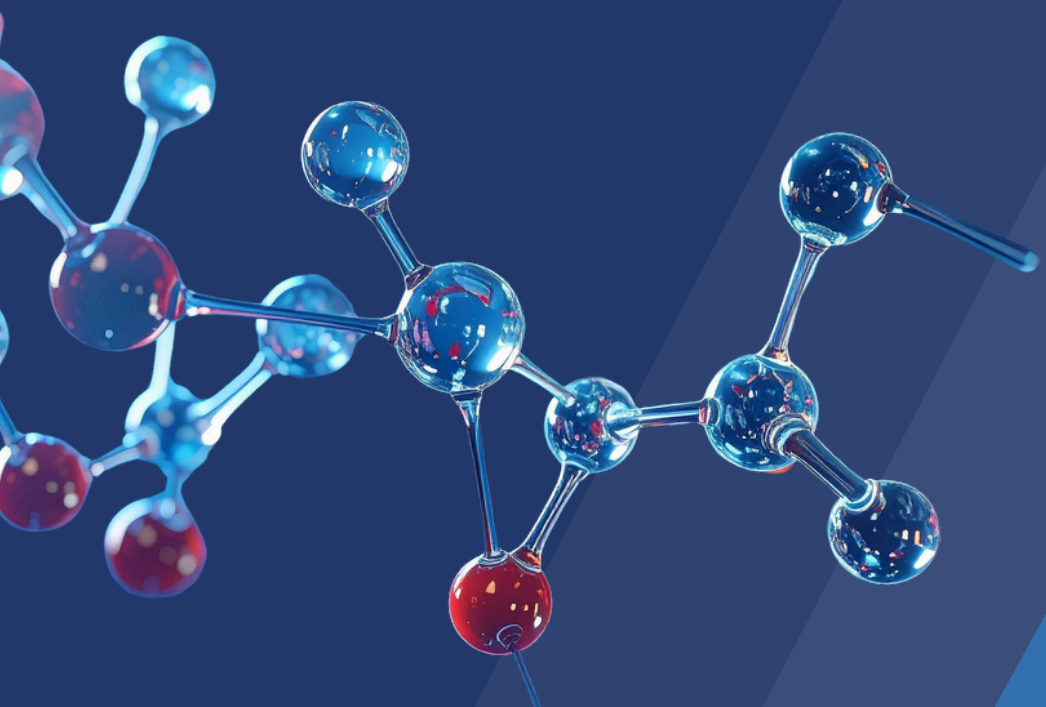
FTMC

POSTDOCTORAL POSITION (FTMC)

Institution: Center for Physical Sciences and Technology, Department of Textile testing
Location: Kaunas, Lithuania
Duration: 2 years
Start date: no later than 01 06 2026
Gross Salary: €3,142/month
Interested? Please contact *sandra.varnaite.zuravliova@ftmc.lt*



FTMC

Position Overview

We are seeking a highly motivated Postdoctoral Researcher to join a cutting-edge research project focused on the development of smart textile composites through the integration of printed sensors using advanced textile printing technologies. The project addresses emerging needs in modern wearable systems, where lightweight, flexible, and multifunctional materials are essential for next-generation smart clothing and performance textiles.

The successful candidate will work on integrating conductive ink-based sensors directly onto textile substrates and embedding them into multilayer textile composite structures. The research aims to create durable, flexible, and protective smart textile systems capable of monitoring physiological and environmental parameters under realistic usage conditions.

Requirements for a postdoctoral fellow:

- PhD degree in one of the following fields: materials science, textile engineering, printed electronics, electrical Engineering, polymer science.
- The PhD must demonstrate strong research competence in experimental materials research or sensor technologies. At least one peer-reviewed scientific publication relevant to the project field.

Mandatory Skills

- Proven experience in experimental research involving materials, textiles, or electronic components.
- Practical skills in conductive inks, functional coatings, or printed electronics.
- Experience with characterization techniques, such as electrical measurements, mechanical testing, microscopy.
- Ability to design, conduct, and analyse experiments independently.
- Excellent command of English for research communication.
- Ability to work collaboratively in a multidisciplinary environment.

Desirable Skills

- Experience with digital printing technologies (inkjet, screen printing).
- Knowledge of textile structures, fibre–matrix interactions, or composite materials.
- Familiarity with sensor design, wearable electronics, or flexible circuits.
- Experience with data acquisition systems, microcontrollers, or wireless communication modules.

FTMC

Other Relevant Information

The fellow is expected to take an active role in laboratory work, data analysis, and prototype development.

We Offer The opportunity to participate in cutting-edge research at the intersection of materials science and textile technology. Access to modern laboratory facilities and advanced characterization equipment. Collaboration with experienced researchers and industrial partners. A stimulating research environment supporting innovation, creativity, and practical impact in defence and sustainable materials development.

Ability to design, plan, and conduct independent research, while working effectively in a collaborative and interdisciplinary environment.

A proven publication record in peer-reviewed journals relevant to the field will be highly valued. Interest in defence-related applications and/or sustainable materials will be considered an asset.

You will find more information about FTMC here: