

Post doc position in Chemistry

MATHYB team-University of Lille (France) / TEXMOF Project

## **Fabrication of textiles functionalized by Metal-Organic Framework (MOF) materials, for the capture and/or the degradation of toxic agents**

### **Scientific surrounding:**

In order to propose new solutions for the production of reliable suit against chemical, biological, radiological and nuclear (CBRN) risk, we propose to develop a textile fiber functionalized by porous materials called Metal-Organic Framework (MOF). This fiber will be used and validated for the capture and/or degradation of toxic agents (or simulants) and will be submitted to stress tests.

The innovative approach of this study is based on innovative methods of grafting MOFs on the surface of a textile fiber. The project is funded by the French Directorate of Armaments (DGA) and is a part of collaboration involving both MOF synthesis, which will be led by Prof. Christophe VOLKRINGER (Mathyb Team) and a textile technology part conducted by Prof. Christine CAMPAGNE (Gemtex TEAM). Both teams are located in Lille suburban area and associated to Lille university campus.

### **Research background:**

The candidate should be an experimentalist with a strong experience in materials synthesis and characterization. Previous experiences in MOFs chemistry are not mandatory but are appreciated.

### **Funding:**

Net salary depends on previous experiences, with a minimum of around 2000 € net/ month for a just graduated PhD. The postdoc should start from January 2020 until June 2021 (18 Months).

### **Contact and application:**

Candidate should send their CV and two recommendation letters to :

Christophe VOLKRINGER

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