



**DR. TUSER BISWAS**

*From Sweden to France*



Project: **Digitally printed antibacterial textiles to prevent the spread of drug-resistant bacteria**

Research topic: **Chemistry**

Swedish Institution: **University of Borås**

French Institution: **Université de Lorraine**

Dates of mobility: **12/09/2023 to 19/09/2023**

Program: **SFVE-A**



## PRESENTATION

[DR. TUSER BISWAS](#) is a Post-doctoral Researcher at [Textile Material Technology](#) of the [Department of Textile Technology](#) at the University of Borås ([UB](#)) in Borås. He is interested in researching 'digitally printed antibacterial textiles to prevent the spread of drug-resistant bacteria'. This knowledge can help to find preventive alternatives to restrict bacterial spread and reduce overuse of antibiotics. For more information, visit his [personal website](#). He obtained his PhD in [Textile Material Technology](#) as a doctoral student of [University of Borås](#) 2023 titled 'Enzyme Printed Fabrics: Bio-functionalisation of Synthetic Textiles by Digital Inkjet Printing'.

## ACTIVITIES IN FRANCE

Dr. Tuser Biswas's work involves research and teaching activities within the area of textile material technology. His current research involves resource-efficient inkjet printing of functional materials on various textile surfaces for advanced applications. He is also involved in teaching courses related to Product development, Smart Textiles, Textile chemistry and Wet processing (Dyeing & Finishing) and Circular textiles. He was hosted by [Dr. Mihayl Varbanov](#), Assistant Professor of Virology, Immunology and Medical Microbiology at the [Faculty of Pharmacy of Université de Lorraine](#) and Laboratoire Lorrain de Chimie Moléculaire ([L2CM](#)). Dr. Varbanov has expertise on the discovery and development of innovating anti-infective treatments based upon natural and synthetic molecules, including phototherapy approaches. During this mobility, they learned about the laboratory facilities of [Laboratoire Lorrain de Chimie Moléculaire](#) and [University of Borås](#). They discussed possibilities of joint project funding and grants application proposals. They exchanged ideas for developing novel antibacterial molecules at Université de Lorraine which can be later printed on textiles [at University of Borås](#). They discussed the possibilities of student and staff exchange between the two universities to grow and continue the collaboration.