



MUHAMMAD NEAZ MORSHED

From Sweden to France



Project: **Flexible non-laminating textile biosensor for high precision stress sensing**

Research topic: **Engineering**

Swedish Institution: **University of Borås**

French Institution: **Université de Rouen, Université de Caen, Univ Paris, ENSAIT**

Dates of mobility: **11/09/2023 to 16/09/2023**

Program: **SFVE-A**



PRESENTATION

[Dr. Mohammad Neaz Morshed](#) is a Researcher in [Textile Materials Technology](#) at the [Swedish School of Textiles](#) at the [University of Borås](#). Dr. Morshed is an expert in the field of surface/interface science, textile material chemistry, textile biotechnology, and catalytic wastewater treatment systems. His current area of focus is surface modifications and functionalization of textile for various smart and green chemistry applications with a focus on eco-friendly and resource efficient preparation methods. Dr. Morshed completed his [PhD in Textile Material Technology](#) under the framework of the [Erasmus Mundus](#) joint doctorate fellowship program about sustainable management and design for textiles ([SMDTex](#)) in collaboration with University of Borås, Ecole Nationale Supérieure des Arts et Industries Textiles ([ENSAIT](#))/ [GEMTEX](#) Laboratory, [University of Lille](#) and [Soochow University](#).

ACTIVITIES IN FRANCE

Dr. Morshed's main objective of the mobility was to share ideas and lay groundwork for future French-Swedish collaboration in smart textile research and education. The mobility started at [Université de Rouen](#) at their [Evreux campus](#), where Dr. Morshed met with faculty members from the chemistry and biology domain hosted by [Dr. Julien Vieillard](#). Key collaboration opportunity in research project around textile-based miniaturized biosensor was discussed with potential for student exchanges and a joint-PhD program between University of Borås and Université de Rouen. Later, Dr. Morshed and Dr. Vieillard visited [University of Caen](#) to have a joint planning meeting with [Dr. Nabil Bouazizi](#) and [University of Paris](#) to meet [Prof. Benoit Piro](#) on the same topic. During the meeting with Prof. Piro, an outline for a project application was discussed and formulated, which will be sent for funding to the [French National Research Agency \(ANR\)](#). Dr. Morshed also visited [ENSAIT](#) where he was hosted by [Dr. Nemeshwaree Bahary](#). Dr. Morshed and Dr. Bahary discussed the potential for future joint applications in the area of enzymatic color removal from waste textile that can be sent for funding to [Horizon Europe](#).