



Nano-SHIELD

Multifunctional nanofiber membranes as CBRN Shield for next generation defence and civil application

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

CALL TITLE:

Open call dedicated to SMEs for research of innovative and future-oriented defence solutions

TOPIC TITLE:

Research on innovative and future-oriented defence solutions

DURATION OF THE PROJECT:

36 months

TYPE(S) OF ACTIVITIES:

Generating and integrating knowledge; Studies; Design

ESTIMATED TOTAL COST:

€ 3 997 500.23

MAXIMUM EU CONTRIBUTION :

€ 3 997 500.23




SHORT DESCRIPTION OF THE PROJECT:

Nano-SHIELD will develop the next generation of nanofibers for Chemical-Biological-Radiological-Nuclear (CBRN) protection.

The project “Multifunctional nanofiber membranes as CBRN Shield for next generation defence and civil application” (Nano-SHIELD) will develop a solution based on nanofiber membranes specially designed for military, law enforcement services and general public filtration of harmful chemical molecules, pathogenic biological entities and shielding against radiation and nuclear radiation. It will increase the resilience of the EU, enabling rapid and adaptive response to emerge CBRN threats by the new generation of protective equipment with prolonged usage time.



**MEMBERS OF THE CONSORTIUM AND
COUNTRY OF ESTABLISHMENT:**

 NAME OF THE ENTITY	 COUNTRY
BIOFABICS LDA (Coordinator)	Portugal
ACONDICIONAMIENTO TARRASENSE ASSOCIACION	Spain
GRAPHENE XT	Italy
INSTITUTE OF EXPERIMENTAL MEDICINE	Czech Republic
POLYMERFACTORY	Sweden
RESPILON MEMBRANES S.R.O.	Czech Republic
RHEIN-WALL UNIVERSITY	Germany
VOJENSKY VYZKUMNY USTAV, SP	Czech Republic