

The FIBRALSPEC technology has clear market potential and will have a strong impact on the economic prospects of the SME participants via two routes:

1. The industrial partners will use the technology directly in their own manufacturing operations and/or directly in services they provide.
2. The industrial partners will market the technology through process licensing to other manufacturing organisations (via product type, market area, geographical region).

The FIBRALSPEC project's aim is to increase the competitive power of European CF sector and especially that of the industrial partners.

A point to note here is the supply and availability of carbon fibres in the future where there is a need for the EU to be independent of the current supply chain.

It also aims at the development of functionalized carbon fibers through novel precursors and cost-effectiveness processes to be incorporated into polymer matrices.

FIBRALSPEC project

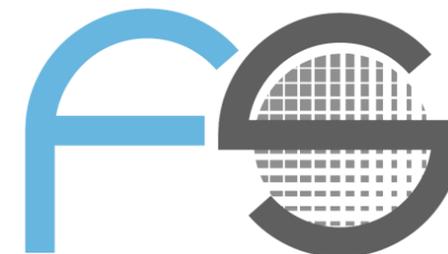
[www.fibralspec.net](http://www.fibralspec.net)

[info@fibralspec.net](mailto:info@fibralspec.net)

Project coordinator: Prof.  
Costas A. Charitidis



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[www.Fibralspec.net](http://www.Fibralspec.net)

## Industrial Technologies Conference 2014

### FIBRALSPEC Project

Functionalised Innovative Carbon Fibres  
Developed from Novel Precursors With Cost  
Efficiency and Tailored Properties

Duration of the project is 48M.

January 2014 - December 2017

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|---|--|
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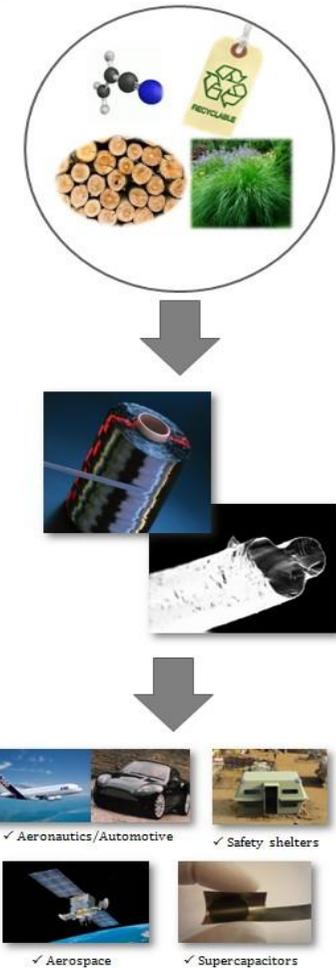


After more than 5 decades of research, carbon fibres and their composites have reached maturity and they are currently not just a 'high-end' costly solution for low rate production, but represent a growing industry with a multitude of applications. Their success is due to their high strength-to-weight ratio and to the fact that in composites they exhibit a combination of valuable properties that may provide a solution in complex problems of materials science and technology.

FIBRALSPEC will develop and demonstrate

- New carbon fibres precursors (ligninocellulosic materials, bamboo)
- Technologies for converting conventional and alternative precursors to carbon fibres

The project also efforts on functionalization which will be mainly focused on cost reduction, mechanical and chemical property improvement.



### General Objectives

- Low cost renewable resources.
- Environmentally-friendly processes.
- Industrialization of final carbon fiber composite.



● Lab Scale

● Up-scaling  
Environmental  
Impact (LCA)



● Industry

Consortium

