

Free Form  
**Fibers**



**Free Form Fibers**

[www.fffibers.com](http://www.fffibers.com)

## **CORE COMPETENCY**

High performance fiber manufacturing via rapid-Laser assisted chemical vapor deposition (R-LCVD)

Material agnostic process, leading to a wide range of fiber and coating materials

High purity, high density

Multiple material formats: long continuous fiber / short fiber in user-controlled lengths without chopping damage / powder

## **KEY POINTS OF CONTACT**

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## **KEY PROJECTS OR PRODUCTS**

Si<sub>3</sub>N<sub>4</sub>

SiC fiber non-wovens

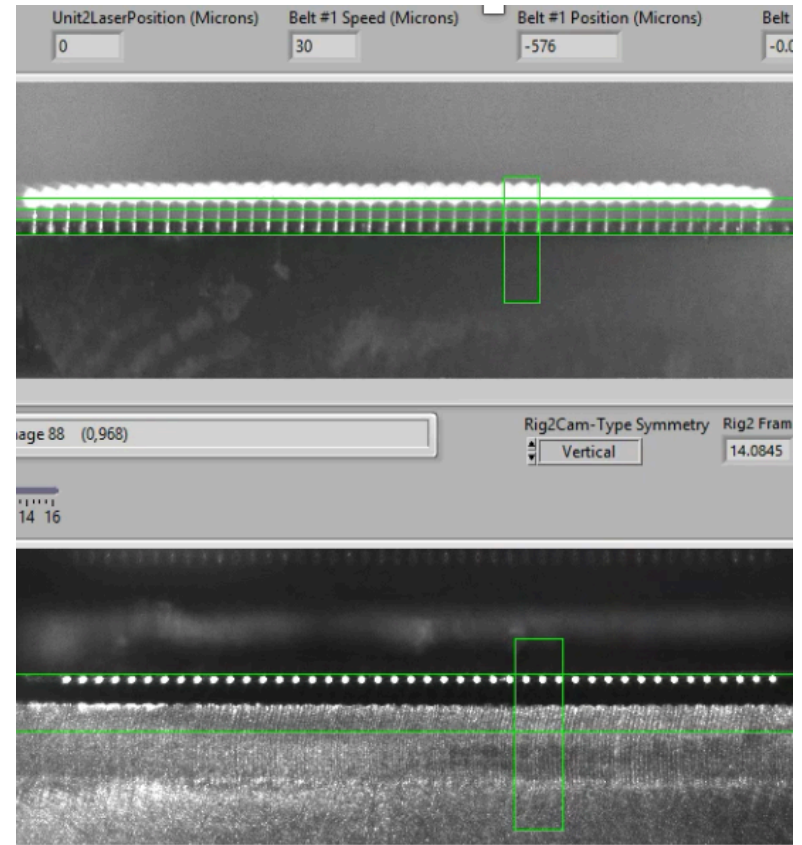
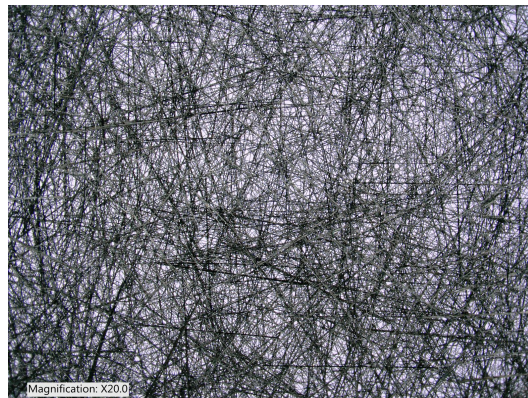
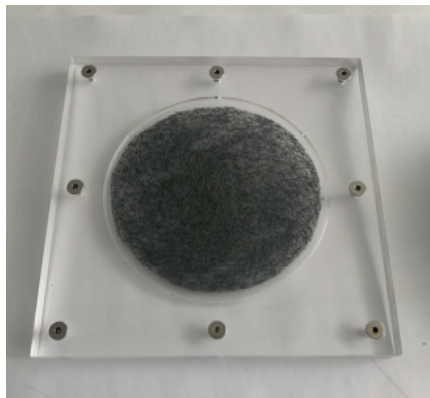
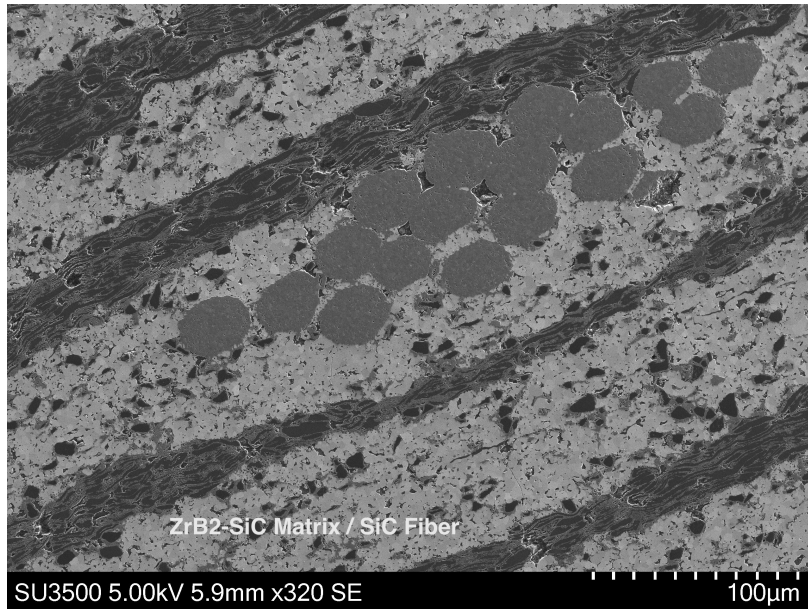
Alternative nuclear fuel and fuel pellet concepts

Thin wall SiC fiber-based fuel rod cladding

High purity, >90% β phase SiC powder

Ultra High Temperature (UHT) materials, such as hafnium carbide and zirconium carbide

*In-situ* fiber coatings, including multiple layer/multiple material designs



Cockpit view for operator during LCVD production of fibers

Non-woven veil made from LCVD SiC short fiber (macro and micro views)