



Corporate Internship Program on Plasma Technology Applications



Project Title:

Plasma Driven Surface Modification and its Effects on Powder-Bed based 3D Printing Processes

Project Reference Code:

Evonik2

Host Facility:

Evonik Corporation

Host Facility Location:

756 Tom Martin Drive

Birmingham, AL 35211

<http://www.evonik.com>

Project Description:

Fabricate polymeric scaffolds and Investigate the effects of plasma treatment on the printing process and performance of printed parts fabricated through a powder-bed printing process (e.g., Selective Laser Sintering). The studies will include screening tests with multiple plasma sources to identify an ideal gas for treatment, supporting senior scientists in the printing of the treated material, and analysis of the post-printing performance of the surface-modified parts.

Disciplines:

Materials Engineering

Is U.S. citizenship required to participate in this project?

Yes

Name(s) of Mentor(s) and contact information:

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Internship Coordinator/ HR manager:

Julia Jacobs (Julia.Jacobs@Evonik.com)

The name and contact information of personnel at the host facility is provided for further assistance with questions regarding the host facility or the project.

Interns will not enter into an employee/employer relationship with the host facility. No commitment with regard to later employment is implied or should be inferred.