



Corporate Internship Program on Plasma Technology Applications

Project Title:

Plasma Deposition and Modification of Parenteral Containers and Laboratory Consumables

Hosting Site:

SiO₂ Medical Products, Inc.

Hosting Site Location:

2250 Riley St,

Auburn, AL 36832

www.sio2med.com

Project Description:

This project will involve plasma enhanced chemical vapor deposition (PECVD) process optimization of multi-layer barrier coating systems applied internally to polymer-based containers used for parenteral drug storage, or consumables for laboratory testing. Containers include vials and syringes for injectable drugs, blood collection tubes for diagnostic testing, and microplates for drug discovery.

In addition, the PECVD barrier coating system's functionality and properties will be evaluated. The outcome of this work could translate into improved manufacturing processes and performance for existing products or new processes for brand new products.

We would consider both undergraduate and graduate students for this internship

Disciplines:

Physics, Chemistry, Materials Science, Engineering (chemical and bio)

Mentor:

Ahmad Taha, Ahmad.taha@sio2med.com

Internship Coordinator/ HR manager:

Rebecca Hagen, Rebecca.Hagen@sio2med.com

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

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