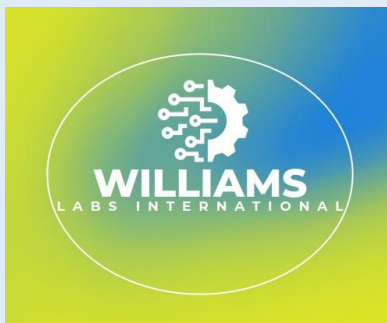




Thank you for your interest in partnering with Williams Labs International to address your technical challenges! Please review the information below to learn more about our **R&D Consultations** and **Virtual Site Visit** services.

To proceed, simply complete the brief form at <https://williamslabsintl.com/services> to receive your free customized quotation. Please provide as much detail as possible when completing the form to allow us to best fulfill your request. Please note that we are not asking you to provide proprietary or sensitive information.

Research and Development Consultations

The R&D consultancy service is intended to offer clients expert advice related to material selection, experimental design, material processing, characterization, and manufacturing to help clients in academia develop scalable technologies appropriate for the aerospace sector and industry clients optimize their product development processes. This service is designed to identify and address processing, quality control, synthesis, and manufacturing challenges related to commodity and high-performance resins, structural adhesives, polymer matrix composites, engineered nanomaterials, fibers, textiles, and bio-inspired materials. We can also provide support for other technical challenges related to product instability, voids, optical inspection, deformations, cracking, and data analysis for mechanical, thermal, electrical, and spectroscopic characterization methods.

Pricing starts at \$500

What's Included:

- A pre-consultation questionnaire to be completed by the client prior to our first meeting
- Focused 60-minute Zoom meeting
- Materials selection, synthesis, fabrication, characterization, experimental design, and/or manufacturing guidance

- Data interpretation and recommendations (if applicable). Pricing will depend on the type and quantity of data.

Post-R & D Consulting Support

- A personalized report within 48 hours of the consultation, which contains recommended test standards, commercial-of-the-shelf (COTS) products, and/or user facilities

Virtual Site Visit

Our Virtual Site Visits are ideal for clients experiencing challenges related to materials processing and characterization. By selecting this service, we can virtually evaluate and monitor polymer, fiber, and composites fabrication techniques and operational procedures and provide real-time feedback that will lead to better quality products and laboratory data.

Supported techniques for this service includes any of the following:

- Extrusion (film, wire coating, filament, etc.)
- Prepregging
- Filament winding
- Fiber braiding
- Fiber spinning and processing
- Nanocomposites processing
- Hot pressing
- Thermoset curing
- ATR-IR spectroscopy
- Dielectric analysis/spectroscopy
- Viscometry
- Thermal analysis (rheology, dynamic mechanical analysis, differential scanning calorimetry, thermogravimetric analysis)

Pricing starts at \$675

What's Included:

- A focused virtual site visit (up to 2 hours)
- A pre-site visit questionnaire to help me understand your needs and challenges
- Procedural and sample/product observation
- Real-time feedback and recommendations to refine experimental and manufacturing processes
- Test standards (if applicable)

Post-Virtual Site Visit Support

- A personalized report within 48 hours of the site visit
- A 30-minute follow up call to guide clients through implementation phase