

# *Freeform & Composite Optimization Workshop*

## **Freeform & Composite Optimization using GENESIS and Design Studio**

### **What will be covered:**

- Overview of GENESIS and Design Studio
- Optimization of Laminated Composites
- Performing Freeform Optimization
- Introduction to Shape Optimization
- Creating Optimization Data Using Design Studio
- Post-processing of Optimization Results with Design Studio
- Hands-on Exercises will be Solved by Attendees with Instructor Help

### **About Workshop:**

This workshop will provide an in-depth look at freeform and composite optimization using GENESIS and Design Studio.

### **About Software:**

GENESIS is a fully integrated finite element analysis and design optimization software package, written by leading experts in structural optimization. Shape, sizing, topography, topometry and topology optimizations are available to the user.

Design Studio for GENESIS is a design oriented pre- and post-processor graphical interface for GENESIS. Design Studio allows users to display finite element models and to easily create GENESIS design data. It allows users to display analysis as well as optimization results.

### **Registration Information**

Contact VR&D for Dates. If you have any questions regarding the workshop content, please contact [Phani Adduri](mailto:Phani.Adduri@vrand.com) (e-mail: [padduri@vrand.com](mailto:padduri@vrand.com)) (phone: 248-596-1611 x101) or for registration questions please contact [Jennifer Krejci](mailto:jennifer@vrand.com) (email: [jennifer@vrand.com](mailto:jennifer@vrand.com)) (phone: 719-473-4611 x100). Early registration is encouraged due to limited seating.

### **Cost:**

FREE

