

# HEEDS Advanced Training (Day 2)

## Discover Better Designs, *Faster*

You've chosen the most powerful design exploration software available, and we want to ensure that you get the maximum value from your investment.

### General Training Sessions

We offer general group training sessions that are open to anyone who would like HEEDS® training. These sessions are taught at our East Lansing, Michigan headquarters or onsite at your facility. Enjoy small class sizes and individualized attention from our expert trainers.

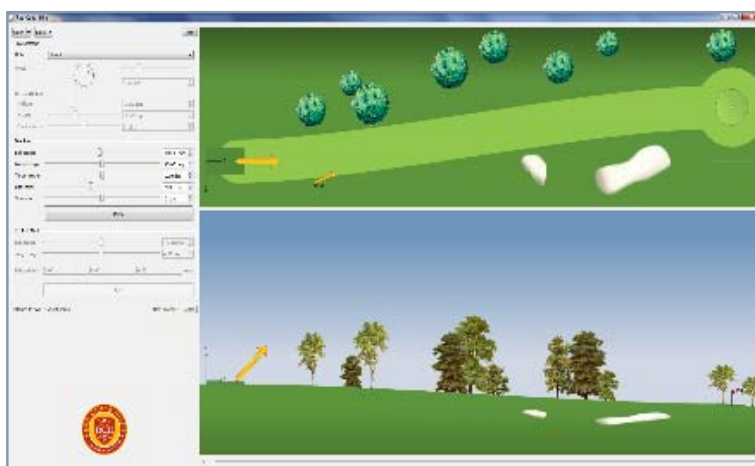
### HEEDS Advanced Training

HEEDS Advanced Training provides advanced training in using HEEDS for parallel design, design of experiments (DOE), sensitivity, and robustness and reliability studies.

### Course Layout

The course layout will be given as a mix of lectures followed by exercises. Each exercise will conclude with discussion and a quiz.

We will begin with Learning Objectives then continue with what we've learned in the HEEDS Introductory Training using the golf shot simulation.



## ADVANCED COURSE AGENDA

- Defining an Optimization Problem
- Advanced Tagging & Methods
- Curve Fitting and Vector Responses
- Taking Advantage of Intuition and Experience
- Specifying Designs Prior to Start / Restart
- Injecting Designs
- Collaborative Optimization
- Semi-Independent Variables
- Advanced Process Automation
- Parallel Studies
- Design of Experiments (DOE)
- Sensitivity Calculations
- Response Surfaces
- Response Surface Based Optimization
- Reliability and Robustness
- Optimization Principles