



# IMMERSIVE ENGINEERING LABORATORY (IEL)

## LABORATORY INFORMATION FACT SHEET

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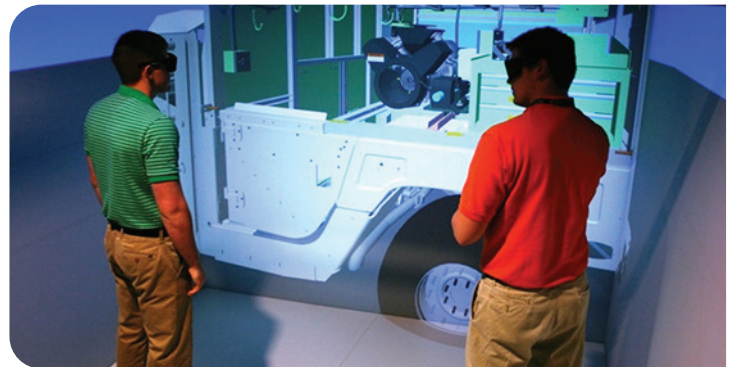
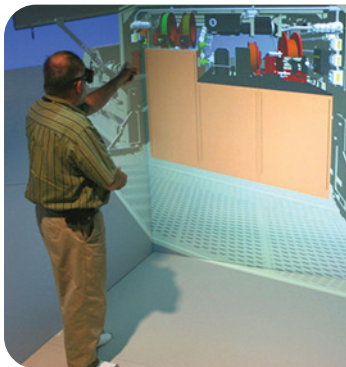


*The Immersive Engineering Laboratory (IEL) is a system of 3-dimensional (3D) technologies designed to enhance engineering reviews by immersing users in a 3D Computer Aided Design (CAD) model.*

### TECHNOLOGY/FACILITY DESCRIPTION:

The IEL includes a Cave Automatic Virtual Environment (CAVE) with four screens that form a room (front, left, right and floor), four active stereo 3D projectors and head tracking cameras. Design reviews held in the IEL with life size immersive 3D CAD models become a collaborative group

experience with users identifying issues or solutions not realized on a computer screen or drawing. The IEL can also be used to down select design alternatives and evaluate virtual prototypes to reduce or eliminate the need for expensive hardware prototypes.



### EQUIPMENT AND EXPERTISE AVAILABLE:

- A Cave Automatic Virtual Environment (CAVE) with four screens that form a room (front, left, right and floor), four active stereo 3-D projectors and head tracking cameras
- 3 Dimensional (3D) Computer Aided Design (CAD) model design reviews in an immersive environment