



IMMERSIVE ENGINEERING LABORATORY (IEL)

LABORATORY INFORMATION FACT SHEET

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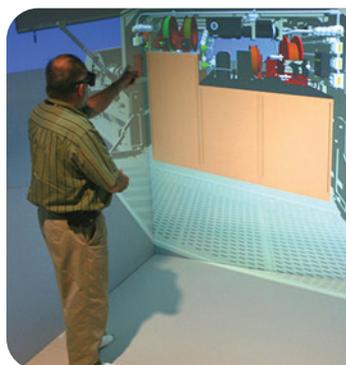


The Immersive Engineering Laboratory (IEL) is a system of 3-dimensional (3D) technologies designed to enhance engineering reviews by immersing users in a 3D Computer Aided Design (CAD) model.

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