

## CoE Computing Facilities (Hardware & Software) Available to ME Dept. Students & Faculty

### ME Dept

#### **LABs**

BRWN207- 24 computers/monitors and printers (shared with ECE department)

BRWN119- 12 Laptops, one teaching station and projection system

BRWN118- 8 computers

#### **CLASSROOMS**

BRWN 123, 241, 236, 237, 241, 307, 315, 326. All with one teaching station and projector.

#### **OTHER**

Each graduate student has a dedicated computer.

#### **FACULTY/STAFF:**

All the faculty and staff members have a computer and a local printer.

### BE Dept./CMR (Center for Manufacturing Research)

#### CLASROOMS/LABs

CLEM212, CLEM323 – One teaching station, document camera, and projection system.  
The Computer Aided Engineering (CAE) Laboratory in Clement Hall 410 is a computer lab specifically set up for Engineering graduate students, advanced undergraduates, and their faculty for research and higher-performance instructional purposes.

The CAE Lab features the following: 8 quad-core Xeon computers with 16GB RAM, 24 inch monitors and a host of engineering-specific and general-purpose software on each system, 1 teaching station and an 80-inch LCD monitor for presentations and instruction to small groups

The Engineering Workstation Laboratories in Clement Hall 405, 406 and 409 double as classrooms and Open Lab facilities available to all students, faculty and staff in the College of Engineering. The Labs are available as Open Labs for students to work out of class 65 hours per week with student.

Each Lab room is equipped with: 14 student computers and 1 instructor station hosting engineering-specific and general-purpose software on each system and a workgroup-level printer capable of printing on 8.5 x 11 and 11 x 17 paper

The Robotel classroom control system capable of broadcasting the instructor's screen to every computer screen in the room as well as allowing the instructor to interact with the student's system from the instructor's computer

The facility in CLEM409 also has one wide-carriage printer for larger printing needs such as large-scale drawings and posters.

### **CESR (Center for Energy Systems Research)**

21 desktops (i5-2400@ 3.10 GHz, 8GB RAM) in "cubicle farms" for graduate student use, located in PRSC209 (11) PRSC411 (7) PRSC416 (3).

3 class workstations (Dual quad Xeons, up to 64GB RAM)

6 workstations with dSPACE digital signal processing cards

RTDS (Real Time Digital Simulation) system

9 network laser printers.

Each member of staff and faculty has at least one Optiplex desktop.

6 workstations assigned to Power Lab in ECE.

10 workstations assigned to CEE.

### **ADDITIONAL FACILITIES**

The Engineering Workstation Laboratory in Maddux Hall 316 is a 24/7 Open Lab facility available to all residents of the Engineering Village in Maddux and McCord Residence Halls through a swipe-card lock system for security.

The Lab is equipped with:

20 student computers consisting of Core 2 Duo systems with 4GB RAM,

22 inch monitors and a host of engineering-specific and general-purpose software on each system, a workgroup-level printer capable of printing on 8.5 x 11 paper and a document scanner.

## **Software available by department or facility:**

### **MoLE-SI/ECE/ME labs**

PTC Creo, SolidWorks, Matlab, ANSYS, Maple, Mathcad, Material Studio, ASPEN, Altium, Altera Quartus, LabView, Maxwell, SPSS, Minitab, MS Office, CodeWarrior, Absoft Fortran, COMSOL, and others.

**CAE/BE**

AutoDesk Inventor, PTC Creo, Star-CCM+, SolidWorks, Matlab, ANSYS, MS Office, Material Studio, MathCAD, Maple and others.

**CESR**

Software includes: MS Office, MS Visio, MS Visual Studio Pro, Matlab, Labview, AutoCad, COMSOL, Absoft Fortran, Maxwell, Texas Instruments Code Composer Studio, DigSilent Powerfactory, Diptrace, TecPlot 360, RTDS RSCAD, PSCAD, SolidWorks, and others.

**Library/Cornerstone Labs**

PTC Creo, SolidWorks, Matlab, ANSYS, Maple, Mathcad, SPSS, MS Office, CodeWarrior, Absoft Fortran, and others.