The Computer Science Department is dedicated to providing high-quality computing facilities for use by computer science faculty, students, and administrative personnel. The facilities are operated by a technical staff who are not only responsible for the repairs, installation, and maintenance of the systems, but who also assist faculty and students in the development of software systems for instructional and research projects.

**General Facilities**

General computing facilities are available for both administrative activities (such as the preparation of research reports and technical publications) and research needs that are not supported by other dedicated equipment. The main server systems are multi-core multiprocessors with large main memories and large disk arrays for storage. Personal workstations and laptops from a variety of vendors are used by faculty, staff, and students throughout the department.

**Educational Facilities**

The Computer Science department operates seven instructional laboratories in two buildings. These labs are used for both undergraduate and graduate computer science courses and include over 200 Intel and X86-based workstations. Supported operating systems include Windows 7, Windows 8, Linux. Two labs are collaboration team project labs dedicated to group learning with the assistance of interactive SMARTboard technology. A later section lists equipment owned and maintained by ITaP but used by computer science students.

**I/O Equipment**

The department operates both special-purpose output devices as well as general output equipment, including more than 60 laser printers, color printers, multi-function printers, video projectors, 80" displays for conferences, digital video recording, and editing capabilities as well as phone and a variation of video conferencing equipment. The CS department provides video conferencing in dedicated locations as well as mobile video conferencing stations.

**Networking Services**

The department is strongly committed to state-of-the-art networking technology to provide access to and communication among its systems, as well as to those elsewhere on campus and throughout the world. Our departmental infrastructure supports gigabit per second data rates to the desktop throughout our two buildings using over 75 Ethernet VLAN-capable switches from Dell, Force10, and Cisco Systems. Wiring in the new Lawson Computer Science Building is based on Panduit augmented CAT6 data cable and patch panels, capable of 10 gigabit per second speeds. This network infrastructure is biconnected to the campus backbone by two 1 gigabit per second redundant fiber links. The campus is connected to multiple high speed Internet backbones, including Abilene/Internet2 and I-Light. DSL, cable, and cellular data services are widely used for remote access.

**Information Technology at Purdue (ITaP)**
In addition to the facilities described above, students and faculty have access to computing systems owned and operated by ITaP. General instructional facilities operated by ITaP include large Sun SPARC servers and several Sun and Intel workstation laboratories. In addition, ITaP provides systems for use in courses taught by the CS Department. These systems include UNIX-based Sun SPARC stations for undergraduate computer science courses and Microsoft Windows-based Intel personal computers for use in an introductory course for non-majors (CS 110). Departmental research projects make use of other facilities provided by ITaP. These include a large IBM SP cluster and the Envision Center for Data Perceptualization.