

## **FACILITIES TEMPLATE FOR NIH APPLICATIONS**

Identify the facilities to be used at each performance site listed and, as appropriate, indicate the capabilities, relative proximity, and extent of availability to the project. Use "Other" to describe the facilities of any other performance sites listed and at sites for field studies. Use additional pages if necessary.

### **Laboratory:**

The P.I. has a \_\_\_\_ sq. ft. independent lab completely equipped for (specify techniques, discipline or research focus). This equipment includes (please specify). The lab is housed in the \_\_\_\_\_ building which is located (specify location, e.g. Case Quad, health sciences complex) thereby providing easy access to (colleagues, patients, core facilities, etc – please specify).

### **Clinical: (select as applicable)**

University Hospitals of Cleveland (UHC) is a major academic medical center adjacent to the Case Western Reserve University (Case) campus providing comprehensive health care to a large population of patients, research and education. UHC is the primary clinical affiliate of the Case School of Medicine. UHC is a 947-bed medical center. It has a rich history of excellence in clinical innovation, leading-edge medical research and teaching, and the distinction of providing the highest quality patient care

The Case Comprehensive Cancer Center (Case CCC) based at Case Western Reserve University (Case) is a partnership organization supporting all cancer related research efforts at Case, University Hospitals of Cleveland (UHC), and the Cleveland Clinic Foundation (CCF). Case CCC is a National Cancer Institute–designated Comprehensive Cancer Center. The Case Comprehensive Cancer Center, now with over 315 scientists and physicians, is supported by over \$160 million in funding. In 2003-2004, the Cancer Center had access to 6,500 new cancer patients at its clinical facilities under Ireland Cancer Center and the Taussig Cancer Center; about 17%, or 1,122 of these patients, participate in therapeutic clinical trials. With 3.9 million people throughout northeast Ohio, a region with a higher than average cancer mortality rate, the Case Comprehensive Cancer Center supports cancer prevention efforts locally and contributes to national and international research efforts to eliminate cancer-related suffering by 2015.

Patient contacts, questionnaires and blood collection for University Hospitals of Cleveland, the MetroHealth Medical Center and the Cleveland Clinic Foundation will be arranged through the General Clinical Research Center (GCRC) at Case Western Reserve University. The Case GCRC is an NIH funded resource (grant #M01 RR 000080) specifically designed to support patient-oriented research. The GCRC at Case, was first funded in 1962, making it one of the oldest GCRCs in the country. It occupies sites at all 3 medical centers and thus has access to 80% of the patients in the greater Cleveland Area. The Case GCRC provides an array of support personnel with diverse skills to facilitate successful completion of investigators' protocols. GCRC personnel are available to provide expert support in biostatistics, informatics, specialized laboratory techniques and nursing to assist with project design as well as implementation.

### **Animal:**

The Case Animal Resource Center (ARC) is a full service animal care center; it is over 78,000 sq. ft. and has multiple acute and sterile operating suites, and trained animal technicians. The animals described in this study will be housed in the AAALAC accredited facilities of the Case School of Medicine (SOM). The animal health program is under the direction of three full-time veterinarians (Associate Directors for Veterinary Service) who provide veterinary care to all Case-owned laboratory animals. Animals in each room are observed daily for signs of illness by the animal technician responsible for providing husbandry. Medical records and documentation of experimental use are maintained on each animal's cage card. Routine veterinary medical care to all animals is provided by veterinary technicians under the direction of the attending veterinarian. Animal care and use is additionally monitored by the Coordinator for Training and Compliance.

**Computer (select as applicable):**

All laboratories and offices are wired to access the Case Western Reserve University's fiberoptic network for high-speed transmission and archiving of images and data. Case has approximately 1260 Cisco wireless access points (AP's) installed across its network as part of an Integrated Technology Partnership with Sprint and Cisco. The wireless network provides ubiquitous network coverage throughout Case buildings and is hosted by the gigabit network. Storage capacity for e-mail has recently been doubled to 200 Mb for all Case faculty, staff and students. More than 100 classrooms and learning spaces now offer technology enhanced services such as videoconferencing and "smart boards".

Case has installed and is operating a pilot high performance computing cluster based on Dell PowerEdge 1850 servers with dual 3.2 GHz Pentium 4 Xeon processors and 4 gigabytes of memory in each node, with Red Hat Enterprise Linux as the operating system, and Topspin InfiniBand as the interconnect technology. The initial cluster has 18 nodes for computation and one "master node" (Dell PowerEdge 2850 with dual 3.2 GHz Pentium 4 Xeon processors, 4G of memory, Red Hat Enterprise Linux, and six 146 GB SCSI drives in a RAID configuration) for user login, compiling, and testing.

Case provides its research community with hosting services for selected Dell servers running Red Hat Enterprise Linux or Windows 2003 Server and for selected Sun servers running Solaris. Hosting includes rack space, power, UPS, interface with vendor warranty and service personnel, operating system installation and maintenance, system administration, and backup.

Information Technology Services (ITS) at Case provides Oracle database hosting and administration services for researchers on centrally supported clustered servers. At present, the servers are two Sun V880 servers, each with 32 gigabytes of memory and 8 processors, running the Solaris operating system. Protection against hardware failure is provided by Veritas clustering technology with the Oracle High Availability option.

**Office:**

The anthropology department holds a license for the quantitative data analysis software, SPSS. The department copy machine and fax machine, housed in the department office, are available for use by faculty and students. Use of the copier is on a fee per copy basis. Faculty members have private offices equipped with computers and lockable document storage space. Locked office space (desk, chair, shelf space, phone) is provided to students based on space availability. The anthropology department has a student computer laboratory, which is available to students on a 24-hour basis. The laboratory has 10 personal computers and 3 laser printers. The PCs are connected to the University network as described above. The laboratory has its own server, and each student has password-protected storage space on the server.

**Other:**