

Roswell Park Research Computing Facilities Description

Grant applicants may wish to include the following text in grant proposals:

Roswell Park maintains campus-wide IT infrastructure consisting of roughly 1,250 servers with 200 TB of aggregate memory, 416 TB of high performance (Fast Class) storage, and an overall storage capacity of 770 TB (local disk + fast class + archival). An additional 600 TB of storage is available for departmental file shares and general research applications.

Roswell Park also maintains a high performance computing cluster (HPCC) consisting of 1,600 processing cores with a combined 10.5 TB of memory and 450 TB of Lustre storage capacity. Peak performance of the Roswell HPCC is 32 teraflops (TFLOPS). A separate 100 TB Hadoop Cluster is also available for analysis of big data. Backup and archival systems are in place for all servers and NAS devices.

Roswell researchers cross-affiliated with the University at Buffalo (UB) may also access compute resources maintained by the UB Center for Computational Research (CCR). These resources consist of over 20,000 processing cores and 4.7 petabytes of high-performance storage. A subset of CCR's compute nodes contain NVidia Tesla V100 graphics processing units (GPUs) suitable for accelerating a wide range of data analytics and machine learning workflows. Peak performance of the CCR computing resources exceeds 1 petaflop (PFLOP). *Note: UB CCR resources are **not** HIPAA compliant and data **must** be de-identified before it is transferred to CCR resources.*