**Facilities, Equipment, and Other Resources - University of Wisconsin–Madison**

The following are the computing and infrastructure facilities that are available for this project at the University of Wisconsin–Madison.

Existing UW equipment falls into three classes: (i) workstations for software development, paper-authoring, email, etc., (ii) clusters for large-scale experimentation, and (iii) other departmental resources that the PIs beneﬁt from and inﬂuence.

1. Workstations: The PIs control a variety of desktop and laptop computers (approximately one desktop system and one laptop per person).

2. Cloud infrastructure: Cloud lab is a research cloud infrastructure in the Computer Sciences department at the University of Wisconsin–Madison as well as other sites in US universities. The PIs have access to it for large-scale experimentation and evaluation of their machine learning and synthesis techniques.

3. Shared Departmental Resources: The PIs and their students will also have shared access to much of the computing resources of the Computer Sciences Department. The Computer Sciences Department operates the Computer Systems Laboratory, which supports department computing for both research and instruction. The current research computing equipment ﬁts into four categories: workstations, ﬁle servers, parallel computers, and networking. The Department currently has approximately 550 desktop workstations, 125 servers, and 400 cluster nodes allocated for research computing. The Lab also supports more than 24 terabytes of disk space mostly through approximately 12 Advanced File System (AFS) servers. All of the computers are connected through an Ethernet-based local area network (desktop machines at 100Mb/s and servers with Gigabit Ethernet) with a Gigabit Ethernet backbone, including Cisco 7000 routers. The network connects via a 10 Gigabit Ethernet link to the UW–Madison campus network, the Internet, and Internet II.