



HAMPTON UNIVERSITY
Data Conversion &
Management Laboratory

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Virtual Parts Engineering Research Center
Modeling & Simulation Lab

Hampton University is a private, non-profit, historically black college/university (HBCU) located in southeastern Virginia. It has an enrollment of just under 6,000 students and a staff of 450 research and teaching faculty members. The University offers a broad curriculum that includes engineering and sciences, medical arts, as well as liberal arts and education, and it supports complex technological research initiatives right here on campus and at local scientific facilities. Hampton offers PhD programs in Physics, Atmospheric Science, Physical Therapy, and Pharmacy. In addition, Hampton has developed a sophisticated information technology infrastructure that is consistently reshaped to garner the latest technology advantages in support of the institution's educational and research missions.

HU's Data Conversion and Management Lab has been active for the past five years undertaking complex assignments in broad areas of data management. The conversion of legacy data into electronic format is a part of the Lab's foundation, and the current direction is to maximize our opportunities in the innovative and productive storage, access and utilization of electronic data. One of the significant activities has been our initiative to leverage the technologies under development at HU's Virtual Parts Engineering Research Center into a full production mode for military legacy weapons system parts for such potential clients as Northrop Grumman Newport News, the Defense Logistics Agency, and others. Data management solutions are also being developed for the Department of Defense, the U.S. Navy and Army, and institutional and corporate clients. In addition, Hampton has been involved in the application of data management techniques required in modeling and simulation programs for homeland defense. Our goal is to develop and provide systems that optimize the utility of data within each environment we are assigned to work.

After implementing an extensive commitment to technology transition, in year 2000 Hampton was included among Yahoo's 100 Most Wired Campuses coming in at #72 in the country. In 2003, Hampton was ranked 9th in the country in Forbes Top 25 Most Connected Campuses. And then again in 2005, reflecting the direction of technology, Hampton was ranked #38 in Intel's Top 50 College Campuses with Most Wireless Access. We were also the only campus in the state of Virginia to make that list.

Throughout the last six years, as the Lab has grown to support more sophisticated data management requirements, our technical staff has maintained continuous system support and assured reliability of the 6000-student University campus network infrastructure. Our network connectivity uptime has been consistently maintained at 99.5%. Early on in the development, we developed policies and procedures to assure system integrity from the start of Lab operations to the present day.

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Throughout these five years we have consistently maintained the network, the individual PC stations and the sophisticated conversion and support equipment. We have performed routine and special system repairs, installed the newest Microsoft updates and patches, maintained the latest virus definition files and conducted routine system cleaning requirements and daily data back-up operations. We have also provided system upgrades, network interface cards, memory upgrades, operating system and application upgrades, complete new applications, and application and system training seminars at various levels of sophistication.

Additionally, we have begun capitalizing on the systems and networking experience of our diverse technology staff by pursuing contracting opportunities in the areas of network configuration and security. Just last year, we completed a Mentor Protégé contract in which we provided information security training to a small business entity that assisted them in passing the CISSP certification exam. We are now positioning ourselves to support more business development and process improvement initiatives for our clients such as human resource management training as well as professional staff development

In short, the technical staff of the DCML built, maintained and supported the advancement of this complete independent IT system that has produced increasingly complex technical solutions in data management over the past five years. We pride ourselves in having created a repository of capabilities, skill sets, and resources to support our broad and diverse client base.

MENTOR-PROTEGE PROGRAMS
supported by the Hampton University Data Conversion & Management Lab

Internship Program with Q-Tech, Reston, Virginia

Customer: TetraTech, San Diego

Completion: Summer 2006 – Summer 2008

Scope: This mentor-protégé program called for the placement of a university student as a summer intern in the environmental engineering firm of Q-Tech in the Reston, Virginia geographic area. Mentor for the program is TetraTech, Inc with main offices in San Diego. This intern, a Hampton University junior in Chemical Engineering, was provided with meaningful project tasks in appropriate subject matter and was involved in most primary program development processes.

This is a three-year mentor-protégé program sponsored by the U.S. Air Force.

Mentor-Protégé Program to Provide Technical Training for ISI Inc. Alexandria, Va

Customer: UII Inc.(Mentor)

Completion: August 2005

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Scope: Hampton University provided support as the HBCU component of this mentor-protégé program in the delivery of technical services for two distinct activities:

- Intensive training and exam for the CISSP (information security) certification program for two ISI technical staff members.
- Provision of consulting and technical assistance services in the areas of information technology risk assessment, disaster recovery, security and business processes, and development of an overall security controls baseline for meeting minimum NISI security controls.

Mentor-Protégé Program to Provide Business Process Improvement Training, Hampton Va.

This project, soon to be contracted, calls for Hampton University to provide support to CTSC Inc. in providing training to a small woman-owned business in the areas of Business Process Improvements, Human Resources, Project Management Training and Six Sigma Training.