

Center for  
Information Management, **CIMIC**  
Integration and Connectivity

Recent growth in computer power and connectivity has penetrated into the daily lives of humans. Industry has responded to this growth by capitalizing on the advances in science technology and has been working on the research and development of new applications that lead to the invention of new products and services. Today, electronic information is being created by many people and data is being gathered in many forms and formats, stored in many repositories around the world, and is becoming increasingly interconnected via electronic networks. These developments have fostered the new area of digital libraries, which is concerned with managing and bringing coherence, usability, and accessibility to this very large amount of distributed complex data, and with transforming such data into information and knowledge. By collaborating with researchers and industry experts from various disciplines, CIMIC provides a platform for multidisciplinary, integrated research and development activities. As an example, QDMS, a data warehousing prototype developed at CIMIC has been adopted by a commercial consulting company, MFG Systems Inc., and is presently being marketed.



**RUTGERS**  
NEWARK

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Center for Information  
Management,  
Integration and  
Connectivity

**SCIENCE & TECHNOLOGY  
SUMMER CAMP**

**DISASTER MANAGEMENT THROUGH  
INFORMATION TECHNOLOGY**

**Dr. Nabil R. Adam**

## SCIENCE & TECHNOLOGY SUMMER CAMP OVERVIEW

Students attending or soon to be attending High School (grades 9-12) from the school district of Newark, NJ will be participating in this year's science and technology summer camp. As seen in natural and man-made disasters such as Hurricane Katrina and the 9-11 terrorist attack, disaster management requires coordinated efforts from many levels of government and volunteer organizations. This summer, campers will look at different disaster scenarios and learn that the key to effective disaster response lies in sharing information to understand unfolding events in the disaster area. Information systems will support decision makers with the right information at the right time.

The summer camp participants will research and develop a disaster management information system in computer labs as well as through field work. Participants will play the role of young software engineers to research the information needs of disaster management, to design and implement a disaster management information system, as well as present their work with multimedia presentations.

In a field trip, they will visit first responders and learn about the current technologies used by agencies and first responders. In addition, Geographic Information Systems (GIS) and location-based map interfaces will be introduced to highlight the significance of reporting incident locations precisely. We will also teach skills of creating and editing digital images, web journals, and multimedia presentations.

## SPECIFIC GOALS

- Learn about different types of disasters and disaster management activities through computer simulation tools and computer games.
- Learn about an open-source disaster management information system that facilitates information sharing, communicating, coordinating, and resource management.
- Design and develop some components of disaster management information systems.

## ELIGIBILITY

Selection for the program is based on the following criteria:

- Students attending or soon to be attending High School (grades 9-12) in Newark, NJ area
- Must have a strong interest in science, mathematics, and technology
- A recommendation from teachers and/or counselors.
- Underrepresented minorities (African-American, Hispanic, and Native American)

The program will run daily from July 9th to July 20th. Starting at 9:00AM and running until 12:00PM, it will be held at the Center for Information Management, Integration and Connectivity (CIMIC) Rutgers-Newark Campus.

## REGISTRATION

Students Full Name: \_\_\_\_\_

Address: \_\_\_\_\_  
Street Apt. #

City State Zip Code

Home Phone: \_\_\_\_\_

Emergency Phone: \_\_\_\_\_

Mother/ Guardian's Full Name: \_\_\_\_\_

Father/ Guardian's Full Name: \_\_\_\_\_

Student's Date of Birth: \_\_\_\_\_

School Attending: \_\_\_\_\_

School Name

School District (City)

Grade