



Research Computing Center Software Development

Overview

The Research Computing Center (RCC) has a talented team of software developers who work in support of research at UNH. Research-specific software may deal with large datasets, methods for data collection in the field, or algorithms used in high performance computing.

Projects

RCC's software developers and web programmers are experts in many areas.

- Data collection and analysis tools:** RCC's programmers are creative in finding solutions for data collection and analysis. For instance, Canopy App is a multi-platform app that measures forest canopy cover in photographs taken by users. Designed for anyone interested in canopy density, the app serves as a digital substitute for, or supplement to, a hand-held device called a densiometer.
- Geographic Information Systems:** GIS uses geospatial information to map data. Examples include NH GRANIT- New Hampshire's statewide GIS clearinghouse - granit.unh.edu, and the award-winning Environmental Resource Management Application (ERMA) - used most frequently for disaster response coordination- erma.noaa.gov.
- Healthcare information systems:** RCC is skilled in managing and securing HIPAA related data and developing powerful, tailored data management and reporting programs. One instance is the New Hampshire Citizens Health Initiative's Accountable Care Learning Network Reporting Site- nhaccountablecare.org.
- Institutional maintenance of chemical safety and compliance:** The UNH Chemical Environmental Management System (UNHCEMS) is an online barcode-based system that records and manages information about the quantity, location, and properties of chemical stock, biological agents, radioactive materials, and hazardous waste across an entire institution. cems-info.sr.unh.edu.
- User-directed report generation, data graphing, and visualization:** RCC helps researchers present their data in compelling ways. The UNH Institute on Disability made use of this functionality when they had RCC create a site for the Annual Disabilities Statistics Compendium- disabilitycompendium.org.

Consultation

Contact Allan Wright at 603-862-0084 or allan.wright@unh.edu to discuss your needs and how RCC may be able to help you achieve your goals.

