

Scientific Computing Support for Research and Development

NOAA EARTH SYSTEM RESEARCH LABORATORY

PROJECT SUMMARY

NOAA Earth System Research Laboratory (ESRL) in Boulder, Colorado required scientific computing support for research and development (R&D) at the David Skaggs Research Center. Riverside Technology, inc. is working as a subcontractor to Cherokee Services Group LLC providing services which include: systems management; systems engineering and architecture; network engineering; security certification and accreditation; and relational database management. Scientific computing support for R&D activities also includes satellite data archiving and systems monitoring for the NOAA profiler network.

LOCATION
Colorado, U.S.A.

PERIOD
2009 – Present

PROJECT DETAILS

Riverside Technology, inc. (Riverside) is working with NOAA and affiliated scientists ensuring mission-critical scientific research projects have the required support of IT services and technology.

Riverside is providing its expertise in the following areas:

- Systems Management – Riverside is developing analysis techniques, managing requirements, and performing requirements verification at the system level using industry-standard tools. This includes establishing infrastructure, processes, and procedures for requirements management.
- Systems Engineering and Architecture – Riverside's work in this area ranges from supporting meetings and conferences to maintaining and troubleshooting hardware used in field studies. We continually seek to enhance system performance by monitoring innovative applications in hardware, software, and R&D.
- Network Engineering – Riverside is performing network management and oversight, including network monitoring, maintenance, administration and support to ensure operation of network routers, switches, and firewalls within the assigned NOAA ESRL components computing environments.
- Security Certification and Accreditation (C&A) – Riverside is supporting development of an IT security policy that reflects the security concerns and objectives of the NOAA ESRL information systems. This policy focuses on access security, data integrity, data loss, network failures, malicious intrusions, and mishandling of data.
- Relational Database Management – Riverside is developing and maintaining a database management system supporting NOAA ESRL in both the technical and administrative requirements of the entire data management lifecycle — from data acquisition to dissemination.



ESRL
GLOBAL SYSTEMS DIVISION

RELATED PROJECTS

Technical Support, Systems Engineering, & Engineering Services

Advanced Hydrologic Prediction Service Program

Integrated Data and Environmental Applications Center Support

RIVERSIDE

global science solutions



CORPORATE

2950 E. Harmony Rd.

Suite 390

Fort Collins, CO 80528

(970) 484-7573

D.C. AREA OFFICE

1010 Wayne Ave.

Suite 500

Silver Spring, MD 20910

(240) 638-3345

www.riverside.com