# NPS

**PROJECT SUMMARY**

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| **Cooperative Ecosystem Studies Unit****Cooperative Agreement Modification** |
| FUNDING AGENCY: **National Park Service** |
| MODIFICATION NO.: **[CESU info only]** | COOPERATIVE AGREEMENT NO.:1200990009 Task Order J2370030060/1 | FUNDING AMOUNT: $ 209,760 |
| INVESTIGATORS Dr. Jim Loftis, Department of Civil Engineering, Colorado State University, Fort Collins, CO 80523 |
| PROJECT TITLE: **Modification to “Guidance and technical support to the Natural Resource Program Center (NRPC) of the National Park Service, incorporating the latest natural resource education methods and techniques.”**  |
| EFFECTIVE DATES**: 01/01/03 through 09/30/04** |
| PROJECT ABSTRACT:The goal of this project is to design, develop, implement, and manage information technology solutions facilitating Web applications and database services for natural resource information. This project enables 1) the Systems Management Branch of the Natural Resource Information Division to operate the servicewide Research Permit and Reporting System (RPRS), 2), the Natural Resource Management Assessment Program (NRMAP), 3) the Environmental Quality Division to operate the Planning, Environment and Public Comment system (PEPC), and 4) support the technical operation of the servicewide Integrated Pest Management system (IPM). The following long-term goals define the scope of CESU tasks associated with this project: * **Research and Development** – Research and develop emerging information technology tools, methodologies, and processes to provide and maintain secure, effective, and efficient workflow solutions for the administration of scientific research and collecting permits, natural resource programmatic staffing assessments, and NEPA compliance. CESU cooperators will provide pivotal services to achieve data storage, processing, reporting, and integration requirements for these important information systems.
* **System Maintenance –** Ongoing daily support will be provided to maintain system viability throughout the life cycle of each information system solution. Maintenance will include the development, updating, and documentation of software code as well as participation in troubleshooting, data quality control, and system infrastructure administration required to support the operations of each solution.
* **Integration** – Subject matter expert participation will be provided to help plan, deploy, and administer the integration of data tables and processes across various system solutions. This will help NPS maximize the efficiency and consistency of information system solutions.
* **Partnerships and Cooperation** - The NPS is cooperating with other Federal and state agencies to share resources, achieve common goals, and avoid duplication of effort and expense, including cost-sharing and technology exchange agreements with cooperators conducting system management and information technology projects. CESU cooperators will participate in these efforts and may be required to develop and deliver formal presentations (orally or in writing), review technical proposals and plans, and otherwise participate in system analysis and planning efforts, system training exercises, and system technical support as information technology subject matter experts.

The broad scope of this continuing task agreement includes several distinct projects supported by the CSU Principal Investigator, research associates, and student interns. Significant projects are listed below:* **NPS Research Permit and Reporting System** (RPRS) – Ongoing research and development on the RPRS solution including lead responsibility for Java, Java Server Pages, JavaScript, HTML, Oracle, and XML/SXL software engineering for web-browser or client interface environment.
* **NPS Natural Resource Management Assessment Program** (NRMAP)– Ongoing research and development on the NRMAP solution including lead responsibility for Cold Fusion or other Rapid Application Development software engineering for web-browser or client interface environments utilizing MS-Access, Oracle, or MS-SQL databases.
* **NPS Planning, Environment and Public Comment system (PEPC)** – Ongoing research and development on the PEPC solution including lead responsibility for JAVA and Cold Fusion or other Rapid Application Development software engineering for web-browser or client interface environment utilizing Oracle, MS-SQL, or MS-Access databases.
* **NPS Integrated Pest Management System (IPM)** – Ongoing provision of technical support, system analysis, project management, and user training services for the Biological Resource Management Division. Starting in FY04, responsibilities will include application development and database administration.
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| ***List of Key Words:*** *NPS, natural resource management, information systems management, software engineering, research permits, NEPA compliance, data management* |
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| ***Annual Report Received:******Final Report Received:******Publications on File:*** |
| ***This Modification is subject to all the provisions included in the Cooperative Agreement, dated 6/22/99.*** |

***Attach any supporting material as necessary.***