COLORADO NATURAL HERITAGE PROGRAM
POSITION ANNOUNCEMENT

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**Title:** Database and Web Developer, Research Associate III

**Number of Positions:** 1 to 2 (100% time)

**Work Location:**
- Colorado Natural Heritage Program
- Warner College of Natural Resources
- Colorado State University
- Fort Collins, CO 80523

**Pay Rate:** $46,000–$52,000

**Summary of Position:**
The Colorado Natural Heritage Program (CNHP) of Colorado State University seeks up to two Database and Web Developers to design and support natural resource-based databases for CNHP clients, assist in the administration and maintenance of existing online databases, and work closely with others at CNHP to develop data products and improve data services. The position(s) will play a pivotal role in expanding CNHP’s data delivery tools through emerging technologies like web-based mapping and data delivery systems, and mobile applications. These are full-time positions. The incumbent(s) will have the opportunity to collaborate with CNHP staff and partners to develop proposals for grants and projects to ensure continued funding of their position(s).

The Colorado Natural Heritage Program (www.cnhp.colostate.edu) is Colorado’s primary biological conservation information center housed within the Warner College of Natural Resources at Colorado State University. CNHP is a key player in Colorado’s conservation of open lands and maintains the only centralized database in Colorado that includes information on the locations and status of rare and imperiled plant and animal species, high quality natural communities, and potential conservation areas. The CNHP’s Conservation Data Services (CDS) Team supports Colorado’s conservation information needs through GIS mapping, data management, database development, and related computer services for recording and presenting biological and natural resource information. The CDS Team maintains CNHP’s Biodiversity Tracking and Conservation System (BIOTICS) database, providing the most comprehensive source of locational information about imperiled species and ecological communities in Colorado. We work closely with government, private land managers, and non-governmental organizations to provide a central clearinghouse to collect and compare information on these vital biological resources across many jurisdictions and land ownerships in Colorado. The CDS Team also delivers customized mapping, database, and website solutions to staff and clients to help manage biological resources, and/or analyze biological field sampling data. The incumbent(s) must be able to work independently and with the team. A commitment to conservation and familiarity with environmental datasets is necessary to thrive at this position. CNHP provides a flexible work environment and excellent benefits.
DUTIES (% time):

- Coordinate, design, and implement project-specific natural resource-based database applications primarily using MS SQL and PHP, but also potentially MySQL, Oracle, ASP.NET, C#,postgresql, MS Access or equivalent software and programming languages. (40%)
- Support existing online databases with ongoing maintenance and feature enhancements (HTML, jquery, javascript, etc.). Coordinate programming tasks in a multi-developer environment. Use source control software like MS TFS. (30%)
- Convert and import data from diverse sources and file formats. Aid staff to convert digital reports, graphics, maps, and other materials between differing data formats. Help CNHP staff with the development of information products for online use. (15%)
- Work closely with the CDS Team to coordinate, integrate, and implement evolving database technologies, and assist with the development of new products and services. Assist with the implementation of these improvements and maintenance routines by performing complex SQL, MS Access, or Oracle programming. Work with Team members to track overall information management needs of CNHP. Collaborate with staff to pursue funding and participate in grant/proposal writing. (10%)
- Assist in the maintenance of CNHP’s website. Develop new web pages or new functionality using Microsoft SQL and asp.NET/PHP, or other similar technologies. (5%)

QUALIFICATIONS:

Required:
1. CSU Research Associate II OR Bachelor’s degree in Computer Science, Information Management, Natural Sciences/Resources or related field and five years professional experience developing and managing relational database applications OR Master's degree and two years professional experience required.
2. Experience with Microsoft SQL, PHP, HTML, and web development (such as jquery, javascript, etc.).
3. Demonstrated experience with large datasets, different file formats, and data management systems.
4. Understanding of MS Access queries, forms, and coding.
5. Demonstrated experience and competence with Windows operating systems and MS Office.
6. Ability to handle multiple demands and set appropriate priorities, and demonstrated experience working on multiple projects at once.
7. Strong communication and organizational skills. Must be able to write and speak clearly and accurately, and enthusiastically convey information to scientific and lay audiences. Must be able to communicate with stakeholders, identify their needs, and offer database solutions.

Desired:
8. Familiarity with biological, ecological, and/or environmental datasets, and a commitment to conservation.
10. Experience with open source software such as MySQL, PostgreSQL, or WordPress.
11. Programming experience in any or all of the following: ASP.NET, C#, C++, XML, CSS, Python, Ruby or AJAX.
12. Experience with MS TFS or Github.
13. Familiarity with mobile app development.
14. Experience preparing media for web usage with Adobe CS or similar graphics software.
15. Knowledge of other enterprise level database solutions such as Oracle.
16. Experience with different operating systems such as Linux.