



Position Title: Software and Database Developer

Department: Information Systems

Reports to: Vice President of Information Systems

Position Summary: This position is responsible for hands-on development of databases, data processing software and web-based user interfaces for the Foundation and Golden Retriever Lifetime Study using MySQL, Drupal 8, PHP and other tools as appropriate.

This is a limited-term, full-time position. We expect the project to last between 12 and 18 months. There is a possibility that the position will become a regular, full-time position at the end of this particular project.

About Morris Animal Foundation:

Morris Animal Foundation is the oldest and largest non-profit source of funding for science that improves the lives of animals. Established in 1948 by Dr. Mark Morris, DVM, the Foundation has funded over 2000 studies and committed over \$118M to research benefitting companion animals and wildlife. Based in Denver, Colorado, our staff of 35 professionals manages approximately 250 studies at any given time, including the Golden Retriever Lifetime Study, the largest and most far-reaching study run to date in veterinary medicine. Each year, over \$7M of new research funding is committed through working practices that ensure only the most scientifically robust and impactful studies are supported. Building on this impressive and solid history, the Foundation is entering a new era. We believe with the increasing recognition of the vital role animals play in the lives of humans, extraordinary growth of our mission is not only possible, but imperative. There is a tremendous amount of work to be done, and we are focused on scalable and sustainable growth of revenues and programs to meet the need.

Golden Retriever Lifetime Study:

The Golden Retriever Lifetime Study (GRLS) is a longitudinal study of approximately 3,000 golden retrievers, in which detailed information (including medical, lifestyle and environmental data) and biological samples are routinely collected throughout the life of each dog. Launched in 2012, the goal of this study is to discover new insights into the causes and risk factors for a variety of disorders commonly found in golden retrievers and other breeds of dogs.

Essential Functions:

- **RELATIONAL DATABASE IMPLEMENTATION.** Responsible for implementing, maintaining and evolving relational databases in support of the Golden Retriever Lifetime Study. This will involve the implementation of new databases as well as migrating existing databases from MS Access to MySQL.



- **MySQL DATABASE ADMINISTRATION.** Responsible for routine database administration and tuning of the MySQL database(s). This includes managing database replication, schema migration, performance tuning, etc.
- **SOFTWARE DEVELOPMENT.** Responsible for designing, writing and testing software for data processing and database maintenance, typically in PHP and/or Python.
- **WEB APPLICATION DEVELOPMENT.** Implement basic, but functional, user interfaces to the relational database(s) for use by project staff and study participants. The applications will be focused on data entry, maintenance and querying. This work will be done in Drupal 8.
- **ANALYSIS AND DESIGN.** Participate, along with others on the GRLS project, in the analysis and design work for both the database and user interface development. This will involve standard domain and workflow analysis, along with interface mock-ups and user reviews.

Position Requirements:

- Minimum 3 years of experience designing, implementing, managing and supporting relational databases.
- Minimum 3 years of experience developing web applications using Drupal with a relational database backend.
- Minimum 3 years of experience developing software in PHP and SQL.
- Experience with software configuration and release management, preferably using git.
- Excellent organizational, interpersonal, verbal and written English communication skills.
- Knowledgeable about dogs, with passion and empathy for companion animals and their owners, and a dedication to the Foundation's mission.
- Must love animals!

Additional Desired Qualifications:

- Relevant bachelor's degree (e.g., computer science, life sciences, other science) or equivalent experience.
- Experience developing scientific databases and applications, especially in bio-medical and/or clinical research.
- Experience designing, implementing and administering MySQL databases and in particular, Amazon-hosted MySQL-style databases.
- Experience with database performance tuning.
- Experience with automated testing tools.
- Knowledge of, and experience with, industry-standard database and application security methods and policies.
- Project management experience.



- Animal health experience and/or knowledge.

Position Specifications: Full-time, limited-term, exempt position. Competitive salary and excellent benefit package.

Please email your resume, cover letter and salary requirements in a word document or pdf, labeled with your complete name to Michael Cinkosky at mcinkosky@morrisanimalfoundation.org. Please list “Database & Software Developer” in the subject line of your email. **Incomplete and/or inaccurate applications will not be considered.**