



Ecological Sciences Programmer/ Data Analyst

The USA National Phenology Network (USA-NPN) serves science and society by promoting a broad understanding of plant and animal phenology and the relationships among phenological patterns and all aspects of environmental change.

The USA-NPN is hiring a programmer with a background in data analysis, to advance the Network's data and research infrastructure. Candidate's primary responsibilities will be focused on maintaining existing web infrastructure and supporting the development of data products from USA-NPN's Nature's Notebook plant and animal phenology program and as well as analyzing and integrating third-party data sets. Position will also require a good understanding of discrete math and statistical analysis. The incumbent will also create reports for team members, manipulating the SQL database to export data in a variety of formats and structures. Ideally, the incumbent will have a background with ecological datasets.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; state and optional retirement plans; access to UA recreation and cultural activities; and more!

Duties

- Maintain and enhance existing web infrastructure, fixing bugs and adding new features. Includes: web based data entry interface, web services and data output tools, mainly using Java and PHP.
- Contribute intellectually and to the delivery of data products, including novel analytical methods, synthesis, quality control and web delivery.
- Prioritize incoming data report requests, generate and deliver reports to science team members.
- Contribute to proposals related to new data products.
- Contribute to troubleshooting and resolving issues with the server infrastructure.
- Respond to requests for user support on web applications and database, and troubleshoot applications problems.
- Meet with USA-NPN team to communicate progress and specify new software requirements.
- Write software, database, and infrastructure documentation.
- Provide support for USA-NPN's Drupal website.
- Provide very limited system administration for USA-NPN servers.

Required Knowledge, Skills, and Abilities

- Bachelor's degree with 2 years' experience; or 5 years of relevant experience.
- Programming and database management skills, including: MySQL, PHP, Java, and HTML5.
- Analytical skills and familiarity with one or more of the following software packages: R, Python, Matlab.
- Knowledge of writing computer applications for the web.
- Knowledge of software analysis and design.
- Knowledge of software versioning systems: SVN or Git.
- Knowledge of content management systems.
- Task and time management skills.
- Strong communication and interpersonal skills.

Preferred Skills & Abilities

- Advanced degree in relevant field, or additional years of experience.
- Basic skills using UNIX command-line interface.
- Skill with spatial analysis and familiarity using GIS.
- Skills in advanced mathematics, including: parametric and non-parametric statistical approaches.
- Experience with web delivery of large raster datasets (e.g., climate, land cover).
- Familiarity with any of the following frameworks or tools: CakePHP, Java Server Faces 2.0, Android SDK, iOS development.
- Skill in administering, maintaining, and using Drupal or other content management systems.
- Ability to transform scientists' feedback into specific tasks to improve software.

To apply, please submit your online application including a cover letter, contact information for three professional references, and resume.

Review of applications will begin February 16, 2015. Position will remain open until filled.

This is a temporary, one year position, with the possibility to extend depending on performance and the availability of funding.

Annual salary: \$45,500-53,000 depending on experience

This is an Appointed Employee position.