Quantitative Ecologist / Computational Biologist

The Everglades Foundation, a non-profit organization dedicated to the restoration of the Everglades, is expanding its Science team and is looking for a Quantitative Ecologist to work with the Everglades Foundation science staff. Our Science Group is interdisciplinary and comprises engineers, hydrologists, an ecologist, and an economist working together on multiple projects, mainly investigating Everglades restoration alternatives. This is an exciting career opportunity with potential to bring together modern computational methods and ecosystem-scale models to improve our understanding of ecological response to Everglades Restoration. The position is a one-year, full-time contract position with possibility of extension for an additional two years. Employment beyond the first year would depend on funding availability, performance, and future need.

We are looking for a highly motivated, productive, and multi-talented Quantitative Ecologist to work on specific projects with the Everglades Foundation Science Team. The primary duties will be to provide technical input and perform mathematical and computational analyses linking environmental changes to ecosystem performance measures. The Computational Ecologist will apply a range of models to simulate habitat and trophic responses to hydrologic and other environmental changes. The Computational Ecologist will also use probabilistic/stochastic analyses to interpret modeled and observed data to estimate a range of ecological responses to environmental changes as well as aid in evaluating the effects of proposed management actions on specific performance indicators of the Everglades ecosystem.

The ideal candidate will meet the following qualifications for consideration:

- Master's degree in Quantitative Ecology, Computational Biology, Environmental Science, Applied Statistics or a closely related highly quantitative discipline, with experience in fitting advanced spatial models to data in R or other statistical languages. A strong background in modeling, statistics and ArcGIS is required;
- Experience or academic training in quantitative ecology, advanced predictive statistical modeling, computational analysis, and scientific programming;
- Experience in applying ecosystem-scale, trophic-level and species-specific models and using statistical methods to interpret modeled results and observed data;
- A strong background in statistical modeling of spatial ecological data with an in-depth experience in quantifying performance measures of Everglades ecosystem is preferred;
- Expertise in database management and mapping spatial data;
- Familiarity with different computer systems and languages (such as UNIX, Linux, FORTRAN, C, C++);
- Ability to independently identify and solve technical problems and carry out assignments;
- Capacity to run complex models and to perform computational analyses in order to quantify benefits of different restoration plans while using specific performance measures;
- Ability to work seamlessly across multiple disciplines;
- Good communication skills (written and oral).

The Everglades Foundation offers a very competitive salary and a comprehensive benefits package. We are located in Palmetto Bay, Florida, and offer an excellent working environment. If you are interested in joining us, send a pdf version of your resume to computational_ecologist@evergladesfoundation.org.

We will be accepting applications until the position is filled. The starting date is planned for June 2016 but is negotiable.