



POSITION ANNOUNCEMENT

Project Scientist
Environmental Scientist with Geospatial Expertise
Term: 1 year

The Soil Health Institute (SHI); a non-profit organization created to safeguard and enhance the vitality and productivity of soil through scientific research and advancement, located adjacent to the Research Triangle Park (RTP) near Raleigh, North Carolina; is seeking to hire a Project Scientist on a one-year contract to contribute to the Institute's program in promoting the adoption of soil health management systems by farmers and ranchers. Specifically, the position's primary responsibility is to of providing deliverables for soil sampling and analyses of soil carbon stocks.

The Project Scientist will lead deployment of pilot projects located in multiple states and will be part of a team of scientists at the Soil Health Institute that is geographically dispersed. Successful completion of the project will include field testing of a novel, regional sampling strategy for soil carbon measurement, synthesis of soil laboratory data, delivery of sampling locations and maps using GIS, and technical and non-technical project reporting. Though SHI headquarters is in Morrisville, North Carolina, the successful candidate is not required to relocate for this job.

Project Needs:

- Project reporting and management
- Implement algorithms for spatial soil sampling
- Coordinate soil sampling campaigns with collaborators
- Analysis, synthesis, and presentation of project data
- Proposal development
- Support other Institute projects with disciplinary knowledge

Qualifications:

- **M.S. in environmental sciences, geosciences, soil science or other geospatial degree programs, Ph.D. is welcome.** Prior soil science training or experience is preferred to facilitate effective communication with collaborators and among our team of soil scientists and agronomists.
- **Spatial data management and analyst skillset.** All data will be spatially explicit, and we share information with multiple teams outside of SHI that perform biogeochemical soil modeling, soil sampling, and soil laboratory measurements. We will be implementing soil sampling designs, using geospatial workflows, and sharing data and learnings between groups regularly. Recent professional experience or completed projects using desktop GIS software (e.g. ArcGIS, QGIS), cloud based GIS (e.g. ArcGIS or Google platforms), and or spatial computing in R or Python 3 (including ArcPy) to manage data and implement spatial analyses should be mentioned in application documents.
- **Data analysis and presentation.** Experience digesting large datasets and concisely presenting results using figures, tables, statistical summaries and other forms of written and oral

communication. Experience or graduate courses in statistics specifically covering random sampling, sample allocation, error propagation, or spatial summary statistics are preferred.

- **Demonstrated organizational and written and oral communication skills.** This project needs effective interpersonal and organizational skills with an ability to communicate results to diverse audiences and stakeholders.
- **Applicants must be authorized to work in the United States.**

Compensation:

- The successful candidate will be awarded a one-year contract with SHI. Compensation will start at \$80,000 and is negotiable with prior experience.

To apply, send cover letter, resume/C.V., example of prior geospatial analyses (figure or map with brief description), copy of college transcripts (unofficial copy is okay) and the contact information of 2 references to: Cristine Morgan, Chief Scientific Officer, Soil Health Institute, cmorgan@soilhealthinstitute.org; In the subject line of the email please write “application to geospatial position”. The position will remain open until filled; however, the first review of applications will begin **April 12**, so all interested candidates are strongly encouraged to apply by that date.