**Detail Announcement (NTE 120 days; temporary promotion)**

**GS-470: National Resource Soil Scientist: Soil Survey Interpretations – documentation support**

**Technical Soil Services & World Soil Resources Branch, SPSD, SSRA**

**Description of Duties:**

* Develop user-friendly figures, reports, and other documentation for models related to conservation effects and soil health including:
  + Dynamic Soil Properties Hub
  + Predictive models and processes
* Develop modular workflow to utilize R studio servers:  data ingestion, execution of model functions, and output creation of SHAPE functions for multiple configurations of data and products.
* Build and develop scripts in the R environment using clustering, regression, logistic regression, tree-based models, and validation.
* Collaborate with Soil Services and Information to determine the best repository to store and serve interpretation documentation for public access
* Actively participate in Dynamic Soil Properties development meetings to aid in the development of the Dynamic Soil properties Hub
* Prepare written reports and provide oral briefings on the above task items to the National Leader for Soil Services and Information and other SPSD and agency leadership as requested
* Participants will gain a working knowledge of informative statistics including using R, clustering, regression, logistic regression, tree-based models, and validation. This experience will be useful for soil scientists and ecological site specialists who work in soil survey.

Description of Requirements:

* Knowledge of digital soil mapping techniques
* Knowledge of RStudio, R Software, and R programming language