The USDA Forest Service has the need for technical and analytical support for developing and streamlining workflows to prepare and process spatially-explicit datasets to support National Forest plan revision, regional vegetation/fuels projects, One Region/One Program of Work, and other geospatial analytical support projects.

**Required Skills and Knowledge:**
- Programming in multiple languages including Python, and R.
- Advanced knowledge of the following software packages applications: ArcGIS, MS Access, MS Project and MS Excel.
- Coursework and work-related experience pertaining to natural resource management, as well as analytical techniques for modeling and assessing dynamic ecological communities.
- Knowledge and ability to work within the ArcGIS on-line environment.

**Tasks under this project shall include:**
- Python programming to compile datasets for natural resource data and pull corporate data from EDW.
- Automation, using python, of multi-scale (i.e. ecoregion subsection, forest and bioregional scale) analysis of bioclimatic, vegetation, wildlife and other natural resource data. In addition, multi-scale summarization of socio-economic data shall also be required.
- The development of raster surfaces and lists from supplemental data shall be required to produce inputs for modeling ecosystem dynamics, disturbance regimes and other vegetation analytics.
- Develop cartographic products and perform live on-screen presentations to show FS personnel and the public how data sets were created, how to interpret the resultant outputs and present preliminary summary statistics.
- Maintain project information in tracking spreadsheets.
- Import and maintain projects in MS Project.
- Develop validation data sets to evaluate the accuracy of mapped vegetation attributes.
- Generate map products that are legible, consistent, and compliant with 508 policy.
- Create internal ArcGIS Online web maps and story maps as well as public facing interactive web maps in coordination with data contributions from each forest.
- Attend meetings and provide supporting map products and explanations to assist with decision making and data exploration.
- Conduct quality control and implement geospatial data management best practices.
- Design and implement mobile GIS technology and applications using Survey123, Collector, Explorer and/or Navigator.
• Develop data, map products, and workflows for ArcGIS Pro
• Oral and written communication with FS staff regarding how datasets were generated or what underlying assumptions are implicit in hypothesis tests
• Create a knowledge transfer plan to coordinate ongoing work with government employees or other designated parties. This includes identifying and documenting:

Send a resume and cover letter - apply by email (include: ‘USFS Forestry GIS Analyst Applicant’ in the subject line) to:

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