**Name of Potential Opportunity:** Knowledge Acquisition and Modeling for Computational Social Science

**Name and titles of potential supervisor/s (and link to external-facing RTI expert page, if available):**

**Name:** Sam Adams  
**Title:** Senior Research Data Scientist

**Name:** Jay RIneer  
**Title:** Senior GIS Architect

**Overview: (2-4 sentences)**
Application of Artificial Intelligence techniques require vast amounts of curated contextual data. Over 70-80% of the time of a data analytics effort is spent gathering and fusing the semantics of the data into a meaningful resource for answering research questions. At RTI we are developing cutting edge technology for knowledge acquisition and modeling and using the resultant knowledge graphs for a wide range of computational social science from the Opioid Epidemic, to Global and Domestic Education Policy to policy guidance for the COVID19 Pandemic. Interns will learn data fusion and knowledge modeling technologies and apply them to create and combine data from disparate sources to create knowledge graphs that can help answer novel research questions. Opportunities for applying Machine Learning techniques to the resulting knowledge graphs will also be available.

**Preferred skills: (including foreign languages, programming languages, etc.)**
Familiarity with data formats (CSV, JSON)  
Familiarity with spreadsheet tools like Excel  
Some programming experience in Python or Javascript  
Skill with Jupyter Notebooks a plus

**Number of Interns:** 1