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Job Description

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Data Scientist

Job ID: 1303-2

Position Description:

Mathematica applies expertise at the intersection of data, methods, policy, and practice to improve well-being around the world. We collaborate closely with public- and private-sector partners to translate big questions into deep insights that improve programs, refine strategies, and enhance understanding using data science and analytics. Our work

yields actionable information to guide decisions in wide-ranging policy areas, from health, education, early childhood, and family support to nutrition, employment, disability, and international development. Mathematica offers our employees competitive salaries, and a comprehensive benefits package, as well as the advantages of being 100 percent employee owned. As an employee stock owner, you will experience financial benefits of ESOP holdings that have increased in tandem with the company's growth and financial strength. You will also be part of an independent, employee-owned firm that is able to define and further our mission, enhance our quality and accountability, and steadily grow our financial strength.

Read more about our benefits here: <https://www.mathematica.org/career-opportunities/benefits-at-a-glance>

One of Mathematica's core values is a deep commitment to diversity, equity, and inclusion. Our research is more robust because it is informed by a variety of diverse perspectives, and our mission to improve societal well-being is strengthened by a greater understanding of issues and challenges facing the populations we serve. Mathematica's ongoing commitment to diversity and inclusion is woven into our everyday actions, policies, and practices. We are dedicated to maintaining a work environment in which everyone is treated with respect and dignity. We offer Employee Resources Groups on a variety of topics, local diversity and inclusion activities in each office, and a Diversity council.

Currently, we are looking for a **Data Scientist** with experience in the development and implementation of applied data science for data analytics and statistical programming projects within the Human Services unit. **This position is open in Chicago, IL; Princeton, NJ; Oakland, CA; and Washington, DC, (working full-time remotely for the time being until our offices reopen).** The Data Scientist will make meaning from data through the creation and deployment of data-driven approaches to solve problems and answer important policy questions for clients using technologies in data mining, machine learning, predictive analytics, statistical modeling, analytics platforms, and business intelligence.

Position Requirements:

Responsibilities may include:

- Provide methodological and programming support to data science tasks that may

include data visualization, predictive analytics, machine learning, natural language processing, or GIS analysis

- Identify and implement the appropriate analytic method for a given project
- Accurately interpret and clearly present results using a combination of visualizations, graphs and tables
- Write programs in R, Stata, or Python to extract, transform and format data and to create variables for use in analysis
- Use SQL and NoSQL to manage large structured and unstructured data sources
- Assist in the development of reporting specifications and user manuals
- Work with stakeholders to gather and document data and security requirements

Requirements:

- Bachelor's degree in economics, data science, data analytics, computer science, statistics, mathematics, or another relevant field
- Foundational knowledge in statistics; experience with Bayesian statistics preferred
- 3-5 years of programming experience in a professional or academic environment
- Experience with open source programming languages like R, Python and/or JavaScript
- Experience with business intelligence and data visualization tools such as Tableau or D3.js
- Experience with SQL and NoSQL databases to work with large structured and unstructured data
- Familiarity with the agile development cycle
- Familiarity with designing or working in cloud environments

Various federal agencies with whom we contract require that staff successfully undergo a background investigation or security clearance as a condition of working on the project. If you are assigned to such a project, you will be required to obtain the requisite security clearance.

To apply, please submit a cover letter, resume, location preference, and a code sample (or 2-3), preferably in R, Python, or Stata. If you include a GitHub, please call out the specific samples you want to highlight. If you do not have code available in these preferred languages, please send a code sample in an alternate language.

Available Locations: Chicago, IL; Princeton, NJ; Oakland, CA; Washington, DC

Visit our website at [Mathematica.org](https://www.mathematica.org)

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Benefits At a Glance

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If you need an accommodation due to a disability to complete any part of the application process, you can request an accommodation by contacting the Human Resources Department humanresources@mathematica-mpr.com or [609-799-3535](tel:609-799-3535). Accommodations are considered on a case-by-case basis.

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