Data Scientist/Engineer

Octo Consulting Group is seeking a Data Scientist/Engineer intern with strong background in computer science and applications, predictive modeling, statistics, analytics, machine learning and mathematics. This individual will work with Octo Consulting’s emerging R&D department and Innovation Labs (Octo Labs) to research, prototype and build interactive data based applications, visualizations and prototypes that are customer/market facing.

Responsibilities:

– Work with R&D lead to identify, research and prototype data analytics, modeling and visualization ideas
– Work with R&D lead, Project Managers and developers to prototype and build interactive web based data analysis and visualization applications
– Help identify the gaps in data analytics and visualization space, contribute to ideas and develop concepts for new algorithms and/or heuristics for data processing, analysis and visualization in the “big data” space for the public sector
– Work with public “open data” to produce interactive visualizations

Required knowledge and experience with the following:

– Demonstrated experience building interactive web sites based on modern standards and web browsers
– Strong foundation and background in statistical, mathematical, predictive modeling as well as business strategy skills to build the algorithms necessary to ask the right questions and find the right answers.
– Good understanding of the visualization techniques and ability to communicate their findings, orally and visually.
– Understand integrating multiple systems and data sets with an ability link and mash up distinctive data sets to discover new insights.
– Ability to design and implement data processing and analysis algorithms preferably in different programming languages such as Python, R, Java, Ruby, Clojure, Matlab, Pig or SQL.
– Thorough understanding of big data technologies such as Hadoop, Hive and/or MapReduce.

Required qualities/skills:

– Strong written and verbal communication skills
– Being able to work in a fast-paced multidisciplinary environment as in a competitive landscape new data keeps flowing in rapidly and the world is constantly changing
– Having the ability to query databases and perform statistical analysis
– Being able to develop or program databases
– Being able to advice senior management in clear language about the implications of their work for the organization
– Being able to create examples, prototypes, demonstrations to help management better understand the work
– Having a good understanding of design and architecture principles
– Being able to work autonomously
**Desired experience and/or familiarity:**

- Understanding of and experience in working in an IaaS/PaaS environment such as Amazon Web Services (AWS) or other cloud provider
- Familiarity or experience with the following disciplines is a great plus
- Experience with software source code management (Git, Svn, etc.)
- Experience working in an agile environment and/or with continuous integration

**Clearance Requirement:** None

**Location of Work:** Tyson’s Corner, VA