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## POSITION DESCRIPTION

### DATA SCIENTIST – INTERNET OF THINGS (IoT)

This job posting is current as of August 2021.

**Job Location:** DC Metro Area / Other Domestic or International Locations

Full-time; contingent upon contract

#### Background

Black Pearl Consulting and Research, LLC is a small management consulting firm offering practical, high-impact solutions to clients in the federal government and international organizations. We are seeking experienced, high-caliber professionals to undertake engaging short- and long-term assignments. Black Pearl offers a supportive, collegial work environment with competitive salary and benefits. Our consultants bring years of knowledge and subject matter expertise in the following areas:

- Program and Project Management and Evaluation
- Social Science Research
- International Development

Applicants will be expected to share Black Pearl's mission and ethos and meet the high standards we look for in all our team members, which are described on our website at [blackpearlconsult.biz/mission-and-vision](http://blackpearlconsult.biz/mission-and-vision).

#### Position Description

The Data Scientist - IoT uses data science in applied settings to develop solutions to international development challenges. Potential projects will draw on a wide range of methods and technical skills in the optimization of existing IoT systems or implementation of new ones. Black Pearl anticipates that IoT projects will center on critical Supply Chain challenges, such as in agricultural and food systems supply chains, pharmaceuticals supply chains, or environmental supply chains.

The Data Scientist – IoT will work on small teams, often cross-disciplinary in nature, and will be expected to lead on technical matters and take ownership for project results.

## **Duties and Responsibilities**

The Data Scientist – IoT will apply data science and machine learning to publicly available data and client datasets. Examples of duties include any or all of the following depending on client needs:

- Provide evaluation and benchmarking of existing IoT systems.
- Design an IoT system to be meet specific project goals, develop project implementation plan, and oversee execution.
- Audit data used within an IoT system and recommend improvements in data collection, storage, and application.
- Apply best practices in data protection and data governance within an organization, and in a partnership or collaborative venture.
- Advise in-house technical staff on ways to optimize their work.
- Serve as senior advisor or team leader on specific data science efforts, including ones that are of high visibility or time-sensitive in nature.
- Take ownership of IoT efforts to see that findings and results are implemented within an organization.
- Engage with cross-sectional business units (C-suite, legal, operations) to ensure project success; communicate technical results to a non-technical audience.

## **Specific Skills and Qualifications**

- Advanced degree in data science, engineering, mathematics, or related field.
- Minimum 2 years' work experience in IoT in an industry setting.
- Experience working a range of IoT devices, such as drones, smart phones, feature phones, QR codes, NFC, blockchain, or RFID.
- Ability to manage multiple complex datasets.
- Experience in statistical modeling, data mining, and building classification, regression, and predictive models.
- Database design or data architecture experience.
- Control systems experience.
- Knowledge of one or more programming languages such as R or Python.
- Ability to design approaches that fit customer and end-user requirements and can think about the end-user's experience in addition to what the data is telling you.
- Ability to take a structured approach to problem solving, results-driven, and approach work practically rather than theoretically.
- Ability to present findings and recommendations in a professional setting, both orally and in writing.

## **Desirable Qualifications**

- Project management skills with experience delivering projects in a field setting.
- HUBZone residence. (Not sure if you live in a HUBZone? Check [here](#).)
- Experience in international development.
- Experience working and living overseas, especially in developing countries and high-threat environments.
- Fluency in foreign language(s).
- Availability for domestic and international travel.

To apply send CV and cover letter to [hr@blackpearlconsult.biz](mailto:hr@blackpearlconsult.biz) or go to [www.blackpearlconsult.biz/careers](http://www.blackpearlconsult.biz/careers). Please reference the position you are applying for and how you heard about it.