

Developing Middle Skilled Data/Big Data Practitioner Programs

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Oceans of Data Institute:

<http://oceansofdata.org/workforce-prep-projects>



Creating Pathways for Big Data Careers

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What Does the Data Practitioner Need to Know and Be Able to Do?

- Initiate the project
- Source the data
- Transform the data
- Analyze the data
- Close out the project
- Engage in Professional Development

Partner Colleges:

- Bunker Hill CC, MA
- Johnson County CC, KS
- Normandale CC, MN
- Sinclair CC, OH

Who is the Data Practitioner?

The Data Practitioner, in service of an organization and/or stakeholders, supports the data life cycle by collecting, transforming, and analyzing data, and communicating results in order to inform and guide decision-making.

Sample Workforce Expectations

The Data Practitioner transforms the data:

- Produces a robust (e.g. standardized, includes new connections among data...) data set aligned with the problem identified in the statement of work.
- Applies revised structures to produce a comprehensive data set ready for storage.

Products

- **The *Profile of the Data Practitioner*:**
defines the role, tasks, knowledge and behaviors needed in the workplace.
- **The Data Practitioner Rubric:**
an assessment framework to assist instructors in evaluating student proficiency in big data skills.

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