



		ISSUED: 5/29/2020
TITLE: Data Scientist	SALARY TABLE: PA	CLASS CODE: PE385
UNION: P & A, Local 1979, U.A.W	SALARY GRADE: 15	EEO CODE: 30
JOB GROUPING: None	FLSA: Exempt	EMPLOYEE CLASS: PE

POSITION PURPOSE

Provide advanced data science expertise to support the University’s strategic planning and decisions. Transform data into new and actionable insights and identifies trends/changes through statistical analysis, predictive modeling, data mining and data visualization techniques. This position will report to the Director of Business Intelligence and Data Analytics in Computing & Information Technology.

ESSENTIAL JOB FUNCTIONS	% Time
Develop advanced data analytics, data science capabilities, and analytical work that will both inform and enable University leaders (i.e. AVP, VP, C-level, Office of the Provost) to make strategic decisions driven by data. Build and implement analytical data models from large data sets using algorithms and creating/running simulations.	20%
Build predictive models and machine-learning algorithms to obtain actionable insights that will both identify and drive opportunities to support the overall student success agenda and initiative.	20%
Use outcomes of advanced data analytics and/or predictive modeling to provide statistical analysis of data and create data visualizations to communicate findings to University leaders and functional teams. Analyze data for trends and patterns and interpret data with a clear objective.	15%
Develop processes/tools to monitor and analyze data model performance to test effectiveness and to ensure accuracy, optimal performance, and data integrity.	10%
Collaborate with University leaders and functional teams to identify opportunities for leveraging University data to drive business solutions.	10%
Research and communicate findings related to new data analysis methodologies, BI emerging technologies and new applications.	10%
Participate in testing and deployment of data analysis and BI tools and applications for implementation and upgrades.	5%
Participate in Data Governance initiatives.	5%
Attend meetings and perform other related duties as assigned.	5%

THIS DESCRIPTION IS INTENDED TO INDICATE THE KINDS OF TASKS AND LEVELS OF WORK DIFFICULTY THAT WILL BE REQUIRED OF POSITIONS THAT WILL BE GIVEN THIS TITLE AND SHALL NOT BE CONSTRUED AS DECLARING WHAT THE SPECIFIC DUTIES AND RESPONSIBILITIES OF ANY PARTICULAR POSITION SHALL BE. IT IS NOT INTENDED TO LIMIT OR IN ANY WAY MODIFY THE RIGHT OF ANY SUPERVISOR TO ASSIGN, DIRECT AND CONTROL THE WORK OF EMPLOYEES UNDER THEIR SUPERVISION. THE USE OF A PARTICULAR EXPRESSION OR ILLUSTRATION DESCRIBING DUTIES SHALL NOT BE HELD TO EXCLUDE OTHER DUTIES NOT MENTIONED THAT ARE OF SIMILAR KIND OR LEVEL OF DIFFICULTY.

MINIMUM QUALIFICATIONS

Education: Master's degree

A Master's degree from an accredited University in Computer Science, Data Science, Information Systems, Mathematics, Statistics, or a closely related field is required. Candidates with an equivalent combination of education and experience may be considered.

Experience:

Requires a minimum of five to seven years of experience in data modeling, data processing, programming and statistical analysis.

- Experience with data pattern recognition and predictive modeling and creating and using advanced machine learning algorithms and statistics.
- Extensive experience using statistical computer languages (R, Python, SQL, etc). Extensive experience with associated computer languages, applications and programs (i.e. TOAD, MS Excel, SQL, Python, Oracle Functions/ Procedures, etc). Extensive experience creating visualizations/presentations of data to business leaders; developing large data sets to find opportunities for change and optimization and executing analytical experiments methodically to help solve various business problems; developing custom data models and algorithms using large (structured and unstructured) data sets; managing the development, design and delivery of data models and visualizations to support internal teams and campus-wide initiatives; building productive, transparent and amicable partnerships with customers and stakeholders at all levels of the organization; motivating customers, staff and peers, by developing a positive, trusting culture of collaboration, governance and shared purpose.

Knowledge, Skills and Abilities:

- Extensive knowledge of Business Intelligence and reporting analytics solutions (i.e. Cognos Analytics, Power BI, Tableau, MS Excel). Expert knowledge of data extraction methodologies for reporting and dashboard development.
- Ability to manage large scale data projects and initiatives and effectively communicate findings to business area leaders and functional staff.
- Possess the ability to use predictive modeling to support University student success initiatives including increasing retention rates, increasing graduation rates and optimization of the students overall college experience.
- Possess the ability to work with business leaders, users and technical staff to analyze and diagnose off-track projects and provide resolution.
- Possess the ability to serve and engage others in a multicultural environment. An openness to change and growth by learning from others.
- Demonstrate sound moral and ethical principles. Ability to manage and protect confidential information.

WORKING CONDITIONS : Normal office environment.

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