Application Information

The following is a list of items required to begin the application process for the program. Additional actions or materials may be required for admission.

- Completed Application form
- $65 U.S. non-refundable application fee
- Bachelor's degree or its equivalent from an accredited institution of higher learning
- Official transcripts from all colleges attended (regardless of number of credits earned)
- Current professional resume
- Statement of professional objectives
- Two letters of recommendation
- Minimum undergraduate cumulative GPA of 2.5 on a 4.0 scale
- Submission of official GRE test results is highly recommended

Apply Now

Application Available:
rowanu.com/programs/649

For more information, please contact:

Anthony Breitzman, Ph.D.
Program Coordinator

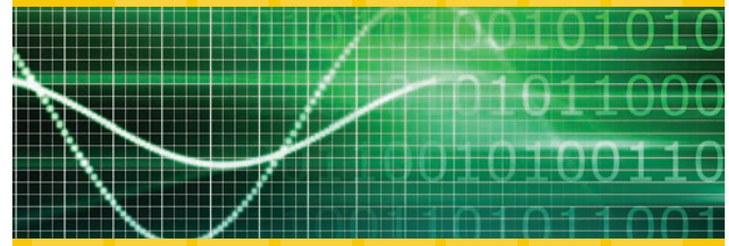
analytics@rowan.edu
856-256-4500 ext. 3625

Rowan University
COLLEGE OF SCIENCE & MATHEMATICS

Computer Science Department
201 Mullica Hill Road
Glassboro, NJ 08028

16-268

Master of Science *Data Analytics*



Rowan University

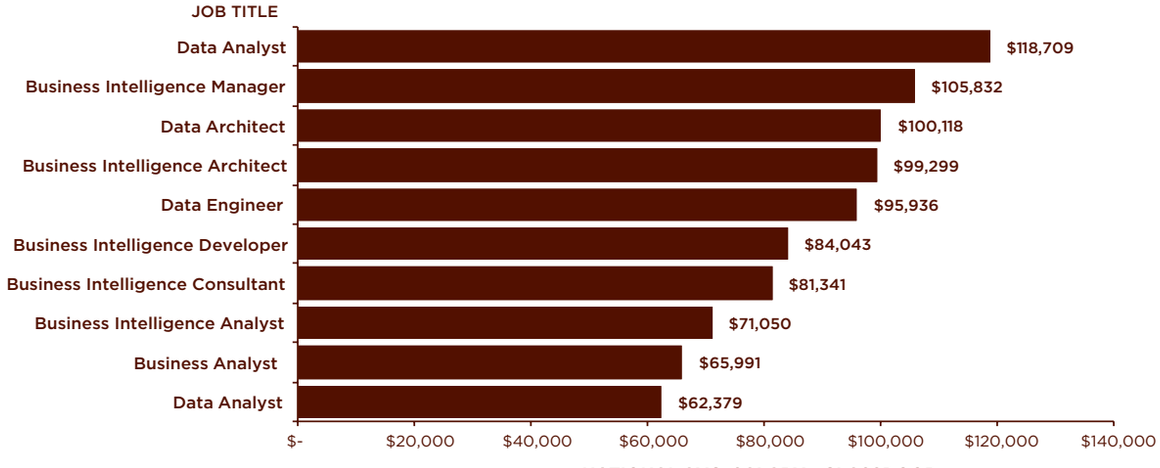
Careers in Data Analytics

Data Analytics is a growing field, stretching across many industries. Rowan University's M.S. in Data Analytics includes a focus on Health Data Analytics.

Professionals use big data techniques to mine public data related to health records, scientific articles, wearable sensors, clinical data, pharmaceutical data and insurance data. As data growth continues, the demand for specialists are at the forefront of the job market. In fact, according to forbes.com, the **GREATER PHILADELPHIA REGION RANKS IN THE TOP 20** of employment markets for Big Data jobs in the United States.

The valuable information gained from data mining and visualization are applicable to many fields, making the knowledge readily transferable to other industries such as retail, logistics, manufacturing, banking and other non-health related fields.

Careers that focus on Data Analytics offer opportunities for both job stability and a financially rewarding career.



Data Analytics at Rowan

The Master of Science in Data Analytics is intended for health care industry professionals or those seeking to establish a career in the biomedical, hospital, clinical research, tele-health and pharmaceutcial fields. Graduates may also pursue further advanced graduate degrees in a STEM discipline or health-related fields, such as epidemiology or implementation research.

Students will be prepared to use algorithms, statistics and technology to make informed decisions from massive amounts of data, manage streamed data or data stored in massive data warehouses and to visually analyze and present information. In addition, students will be able to process and analyze complex and voluminous healthcare, pharmaceutical and clinical research data.

Courses

This program consists of 11 courses and a total of 30 graduate semester hours. Students may enroll in this program part-time or full-time.

Required (12 credits)

- Visual Analytics
- Data Warehousing
- Data Mining I
- Applied Multivariate Data Analysis

Core (12 credits)

- Patient Data Understanding
- Data Quality and Web/Text Mining
- Data Analytics Capstone Practicum
- Data Analytics Laboratory I
- Data Analytics Laboratory II

Electives (6 credits)

- Patient Data Privacy & Ethics
- Healthcare Management
- Design and Analysis of Experiments
- Information Visualization
- Advanced Software Engineering
- Data Mining II
- Machine Learning
- Advanced Topics in Pattern Recognition
- Decision Analysis

The SAS Institute, a developer of analytics software, predicts that the number of employees needed to handle big data tasks will grow by more than 240 percent by 2017, creating a shortfall of hundreds of thousands of employees in the U.S. alone.