The City of Virginia Beach Department of Information Technology
2019 College Summer Work Program

SUMMARY

The City of Virginia Beach Department of Information Technology’s College Summer Work Program is designed to recruit diverse college students majoring in Information Technology, Computer Science, Information Systems, or a related discipline. The program provides viable full-time and part-time work experiences during the summer that assist students in making connections between textbook knowledge and real-world experiences.

We are seeking talented college students who demonstrate excellent problem solving, analytical, written and oral communication and interpersonal skills that may be utilized in Business Intelligence/Data Science, Center for Geospatial Information Systems, and Technology Services.

PROGRAM INFORMATION:

Selected candidates will work a 20 to 40-hour work program between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday for approximately 8 weeks (beginning June 3 – July 26, 2019). Normal work hours may vary depending on the position and division. Flexibility for school schedules is allowable. The applicant is responsible to provide their own transportation to work and housing during the summer work program.

Compensation:
Paid College Summer Work Program

Application Procedure:
All interested applicants should e-mail a resume, cover letter, and transcripts (unofficial will be accepted) to ITTrain@vbgov.com. Incomplete applications will not be considered for the College Summer Work Program. On site interviews will be scheduled for qualified applicants April 22, 2019 – May 3, 2019. References from College/School Professor are required at the time of interview. If you have any questions regarding this posting, please contact ITTrain@vbgov.com.

Selected candidates will be employed through a temporary staffing agency and assigned to the City of Virginia Beach. A drug test and criminal background check, performed by this agency, is required before employment.

Important Dates:
- Application Dates: April 8 - 26, 2019
- On Site Interviews: April 22, 2019 – May 3, 2019 (times TBD by each business area)
- Selections Made: 5:00 p.m., May 8, 2019
- Abacus Processing: Must be completed by 5:00 p.m., May 22, 2019
- Program Dates: June 3, 2019 – July 26, 2019

The City of Virginia Beach is an Equal Opportunity Employer and does not discriminate on the basis of age, sex, religion, national origin, race, disability or political affiliation.
BUSINESS INTELLIGENCE / DATA SCIENCE

A College Summer Worker in Business Intelligence / Data Science will have opportunities to support the future in data analytics, smart cities, Internet of Things (IoT) and make a direct and positive impact on our community or enrich your knowledge in multiple disciplines. We are looking for College Summer Workers who have a passion to proactively engage and innovate developing citizen centric solutions using emerging technologies to support the data science team.

You will be given opportunities to work in Amazon Web Services (AWS) Cloud, Office 365 Power BI and Microsoft Cloud, and voice assisted and sensor technologies to promote a data driven culture and support growth and development of organizational data community of practice; perform complex cleanup, analysis and data mining tasks; interpret trends, patterns in data sets and images to identify anomalies; create models that depict trends and communicate actionable insights through stories; analyze and interpret results using statistical analysis, complex logic and other techniques; and monitor and manage data flow for use in future analysis.

Learning Objective:

The City of Virginia Beach has more than 33 departments that has large amounts of current and historic data. As a College Summer Worker, you will have a great opportunity to work with some of the real-world datasets to delve into and find patterns, create analytics, use machine learning to provide predictive insights, and communicate solutions through presentations. You will learn to engage with different teams learning business processes and doing exciting work with visualizations using data and spatial technologies that will contribute to the future of the city and enhance your career opportunities.

Minimum Qualifications:

- Rising senior pursuing an undergraduate degree in Computer Science, Business/Data Analytics, Mathematics, Statistics, Computer Engineering, Business Administration or related field.
- Basic skills to analyze and formulate city data using statistical and other methods to provide insights through data and predictive analytics
- Familiar with machine learning using scripting languages such as Python, R, or similar.
- Familiar with visualization tools and cloud environments.
- Possess strong written and verbal communication skills, a positive attitude, and a willingness to learn.

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Center for Geospatial Information Services

As an College Summer Worker you will have the opportunity to provide support to the CGIS production team by assisting with the ongoing data maintenance/data management responsibilities including planimetric geographic feature creation and editing process (i.e. creating/editing building footprints, paved areas, recreational areas, etc.); historical aerial photography indexing and georeferencing; creating/editing subdivision boundaries; geographically indexing map books; and ad-hoc map requests

Learning Objective

At the completion of this program, the selected candidate will broaden his/her understanding of geospatial technology as it relates to municipal government data management. The candidate will also acquire the technical skills associated with geospatial data maintenance/management through feature editing; best practices related to geospatial data visualization and the preparation of map products; geospatial data management workflows; and basic navigation of enterprise web-based GIS applications, such as City Map.

Minimum Qualifications

- Rising junior or higher pursuing a bachelor’s degree from an accredited college/university in a discipline such as Geography, Geology, Civil Engineering, Urban/Regional Planning, Landscape Architecture, Ecology, or related field.
- Successfully completed at least two college level courses in Geographic Information Systems (GIS) or computer aided drafting and design (CAD) related to civil engineering field (i.e., land development, water resources, environmental engineering, etc.).
- Possess strong written and verbal communication skills, a positive attitude, and a willingness to learn.

Preferred Qualifications

- At least two college level courses in Geographic Information Systems (GIS).
- Experience editing geographic features.

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TECHNOLOGY SERVICES

A College Summer Worker in this business area will have the opportunity to plan and conduct customer engagement meetings to observe and analyze business processes in use within Executive Management Community of Interest business areas; learn to use the Navvia Business Process modeling tool; document current business process; document attributes associated with the business process including business value; prepare for and arrange in person meetings to present the documented business process to stakeholders and revise to reflect further input and receive sign-off from customer; align documented business process with 'touchpoint' business processes within Navvia; validate the information held within the City’s Application Portfolio management knowledge base within Innotas tool; and develop an understanding of the City’s emerging Information Architecture.

Learning Objective

To use business analysis and business process mapping skills to develop an understanding of Business Capability Mapping, the relationship with information architecture, application portfolio management and technology Fit Gap analysis as applied in Local Government Technology Services.

Minimum Qualifications

- Rising junior or higher pursuing a bachelor’s degree from an accredited college/university in a discipline such as Information Technology, Computer Science, Information Systems, Business Administration, Business Analytics, Data Science, or related field.
- Completed coursework in Business Analysis to include requirements analysis, business process analysis, and business process documentation.
- Possess strong written and verbal communication skills, a positive attitude, and a willingness to learn.