



<b>Job Opportunity</b>	Applications Developer
<b>Vacancy Number</b>	2019-07
<b>Closing Date</b>	Open until authorized
<b>Location</b>	Appalachian Regional Commission 1666 Connecticut Avenue, NW, Washington, DC 20009
<b>Grade</b>	NF: 13

### **Agency Information**

The Appalachian Regional Commission (ARC) is an economic development agency of the federal government and 13 state governments focusing on 420 counties across the Appalachian Region. ARC's mission is to innovate, partner, and invest to build community capacity and strengthen economic growth in Appalachia to help the Region achieve socioeconomic parity with the nation. [www.arc.gov](http://www.arc.gov)

### **Position Summary**

This position is a senior developer responsible for maintaining the business grant management system (ARCnet) of the organization. The primary and critical work of this position is to work collaboratively with the Director of IT, database administrator, and ARC staff on the design and development of ARCNET, POWER portal, and other applicable system(s) then lead the preparation and implementation of code enhancements to these applications. The position is involved in all work that involves the requirements analysis, design, documentation, development, modification, testing, installation, implementation, and support of new and/or existing applications software. Additionally, incumbent writes, modifies, and debugs software.

Application development involves the process, life cycle and creation of the software aimed at helping users complete a computer task or program. The Developer personally performs or works closely with computer analysts and/or engineers in using applicable code language(s) to develop the necessary specifications for software. The incumbent may also test, debug and improve generally faulty applications for ARC or user-clients. The position reports to the Director of IT and works collaboratively with the IT team and, as necessary, with external contractors.

### **Duties and Responsibilities**

The incumbent is responsible for maintaining the primary ARC business system, ARCnet, and related applications, by

- translating technical specifications into programming specifications
- developing, customizing, or acquiring applications software programs
- testing, debugging, and maintaining software programs
- analyzing and refining systems requirements
- translating systems requirements into applications prototypes
- writing, debugging, and maintaining code
- determining and designing applications architecture
- determining output media/formats
- designing user interfaces

- working with customers to test applications
- assuring software and systems quality and functionality
- writing and maintaining program documentation (within system and in backup copies)
- evaluating new applications software technologies
- continual service improvement

The incumbent is responsible for creating, maintaining and implementing the source code that makes up the application or program. Design the prototype application, indicate program unit structure, and coordinate application plans with the development team or user-client.

Lead or function as part of a team to assist in and/or implement all aspects of the software development lifecycle: requirements generation, design, code, verification and test, and maintenance.

Participate in Release and Iteration Planning meetings with the team and other key stakeholders.

Ensure adherence to architecture standards, risk management and security policies

Work with users and the ARCnet system administrator who provide specifications and interpret or evaluate the requirements for coding purposes.

Provide technical guidance for application analysis and programming to internal and external contacts.

Determine feasibility of the requested applications.

Develop reports on the status of projects. Implement project management principles.

Review business rules to determine where fixes should be made. Advise on the need to formalize the process to document code and the associated business process and their histories.

Develop and document internal Standard Operating Procedures/Instructions (SOP/SOIs) for application development. Create new guidelines and recommends change proposals.

Define, document, analyze, perform, and interpret developmental tests [including Regression Testing, Integration Testing, and General System Testing (GST) for new and/or modified products or product components.

Perform other related duties as required.

### **Qualifications**

Demonstrated background and experience in application design/development or an IT-related field, including experience in handling complex system issues independently and in a team environment.

Knowledge of & skill in applying applications software development principles and methods sufficient to participate in the design, development, testing, implementation of new/modified applications software.

Knowledge and experience working in an Agile Environment.

Technologies:

- C# – Expert-level implementation skills with C# and the .NET platform
- SCM – Strong experience working with an SCM tool like Team Foundation Server, Subversion, Git

- ASP.NET – Strong implementation skills with ASP.NET including experience with building custom controls and developing with the ASP.NET MVC framework
- Microsoft Team Foundation Server
- Database – Strong experience with Microsoft LINQ or ADO.NET. Must be highly proficient in SQL preferably across multiple databases. Highly proficient in the creation of tables, views, triggers, functions, and stored procedures
- Expert in SQL Server Integration Services (SSIS)
- Web – Strong experience building modern web applications using frameworks like jQuery, jQuery UI, and Bootstrap
- General – Comfortable in more than one programming language with a strong understanding of fundamental web/internet technologies

Adaptability – ability to accept and apply changes to work processes, information, team; recovers quickly from setbacks and finds alternative ways to reach goals or targets; navigates change through positive communications and supportive actions

Communicating – selects appropriate and effective way to communicate to audiences in diverse situations; listens actively and asks questions to understand other perspectives or confirm understanding; awareness of and responsive to verbal and non-verbal communication styles; provides status updates which reduce or eliminate the need for follow up from requestor

Collaboration - ability to interact and work effectively with others to accomplish goals despite differences, changes, roles or resources; treats others with respect, dignity, and professional courtesy; values the contributions of others through listening, sharing relevant information and considering new ideas; affirmatively shares lessons learned and relevant information.

Writing – ability to recognize and use correct English grammar, punctuation, and spelling; communicate information (for example, facts, ideas, or messages) in a succinct and organized manner; produce written information, which may include technical information that is appropriate for the intended audience; produce written material that is timely, accurate, succinct and relevant to recipient's needs.

Critical Analysis - ability to identify, research, analyze, design, manage and communicate data and outcomes sufficiently to various audiences to accomplish work outcomes; develops, recommends, and/or implements innovative and effective approaches to solve problems.

Accountability – makes best use of resources to accomplish work priorities; takes responsibility of balancing quality with deadlines; takes appropriate action(s) to fulfill commitments to others; owns, acknowledges and corrects mistakes; immediately communicates updates and changes to others

Project Management - Knowledge of the principles, methods, or tools for developing, scheduling, coordinating, and managing projects and resources, including monitoring and inspecting costs, work, and contractor performance.

Decision Making - Makes sound, well-informed, and objective decisions; perceives the impact and implications of decisions; commits to action, even in uncertain situations, to accomplish organizational goals; causes change.

Problem Solving - Identifies problems; determines accuracy and relevance of information; uses sound judgment to generate and evaluate alternatives, and to make recommendations to complex and multi-faceted problems.

Reasoning - Identifies rules, principles, or relationships that explain facts, data, or other information; analyzes information and makes correct inferences or draws accurate conclusions.

Planning and Evaluating - Organizes work, sets priorities, and determines resource requirements; determines short- & long-term goals and strategies to achieve them; coordinates with others to accomplish goals; monitors progress and evaluates outcomes.

Customer Service - Works with clients and customers to assess their needs, provide information or assistance, resolve their problems, satisfy their expectations; skill in dealing effectively with various personalities.

Attention to detail; thorough when performing work and conscientious about attending to detail.

Ability to understand and translate ARC's business needs into technology solutions.

Ability to work independently, with minimal guidance. Ability to work in an unstructured environment.

Skill in evaluating one's own technical work.

Skill in prioritizing tasks to meet work demands. Ability to work under pressure.

Ability to obtain a Public Trust background investigation.

Preferred: grant management system development and maintenance experience with at least six to eight years of experience in software development.

Additional Requirements:

- U.S. citizenship is required.
- Prior to hire, the selectee must successfully complete a federal background investigation and position requires maintenance of the background security review.
- Travel may be required (15%)

### **Salary and Benefits**

ARC offers a collaborative work environment, a convenient location near Dupont Circle, and a competitive benefits package which includes health insurance, retirement, paid time off, commuting subsidy, professional development, etc. This is not a federal position; however, if a federal employee is selected for this position and transfers without a break in service of more than three calendar days, he or she may be able to continue his or her retirement and life/health insurance benefits. ARC generally follows the General Schedule Salary Table of the Federal government. ARC's grades denoted by "NF" are equivalent to the federal grade(s) on the GS chart.

### **Apply Online:**

<https://appalachianregionalcommission.applytojob.com/apply/foYV4RuN0w/Applications-Developer>

*ARC is an equal opportunity employer. Selection for this and any other position will be based solely on merit. ARC does not discriminate on the basis of race, color, religion, sex, national origin, politics, marital status, sexual orientation, physical or mental disability, age, membership or non-membership in an employee organization, or other factor prohibited by law. ARC will provide reasonable accommodation to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please contact Allison Thiriez at 202.884.7712 or at [athiriez@arc.gov](mailto:athiriez@arc.gov)*