

Iowa Department of Administrative Services – Human Resources Enterprise
Job Classification Description

Roadside Development Specialist 2

Definition

Under general supervision, develops and enhances the right-of-way areas adjacent to the roadway involving the preparation of plans for roadsides, rest areas, and erosion control projects; performs related work as required.

The work examples and competencies listed below are for illustrative purposes only and not intended to be the primary basis for position classification decisions.

Work Examples

Prepares design plans for roadside development including safety rest areas and scenic areas in order to completely and accurately illustrate landscape and erosion control projects along the state highway system or on state building sites.

Performs project field reviews during planning and construction phases and periodically thereafter in order to identify top soils, vegetation, or seeding in need of replacement and other existing or potential problems and to ensure conformance to specifications and design during construction.

Develops landscape and erosion control special provisions, methods, or standards for projects to ensure that information necessary for conformance to specifications is included with project plans for letting.

Computes project cost estimates in order to provide sufficient information on which to base project completion costs for contract bids.

Instructs maintenance personnel in the planting and management of all plant materials explaining methods of establishment and maintenance (planting depth, establishing watering, and pruning schedules), and providing information regarding the identification of common plant disease and insect problems.

Schedules roadside development projects for letting in order to ensure that landscaping and permanent erosion control construction may be executed on a timely basis.

Communicates with the public, peers, engineers, and personnel in related departments, various local and state agencies or commissions, and vendors in order to solicit agreements, solve problems, and obtain or provide technical information.

Determines the location, quantities, and appropriate types of plants, fertilizers, mulch, seeding, and ditch control materials for a particular roadside development project in order to control erosion and to promote highway beautification and safety.

Competencies Required

Knowledge:

- Engineering and Technology – The practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

-
-
- Design – Design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.
 - Biology – Plant and animal organisms, tissues, cells, functions, interdependencies, and interactions with each other and the environment.
 - Public Safety and Security – Relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.
 - Building and Construction – Materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.

Abilities:

- Oral Comprehension – Listen to and understand information and ideas presented through spoken words and sentences.
- Oral Expression – Communicate information and ideas in speaking so others will understand.
- Visualization – Imagine how something will look after it is moved around or when its parts are moved or rearranged.
- Written Comprehension – Read and understand information and ideas presented in writing.
- Problem Sensitivity – Tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- Category Flexibility – Generate or use different sets of rules for combining or grouping things in different ways.
- Mathematical Reasoning – Choose the right mathematical methods or formulas to solve a problem.

Skills:

- Critical Thinking – Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Active Listening – Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Reading Comprehension – Understanding written sentences and paragraphs in work-related documents.
- Speaking – Talking to others to convey information effectively.
- Complex Problem Solving – Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Minimum Qualification Requirements

Applicants must meet at least one of the following minimum requirements to qualify for positions in this job classification:

- 1) All of the following (a and b):
 - a. Graduation from an accredited four-year college or university with a degree in agronomy, landscape architecture, engineering, horticulture, or forestry; and
 - b. A total of two years of education and/or full-time experience, where thirty semester hours of accredited college or university course work in agronomy, landscape architecture, engineering, horticulture, or forestry equals one year of full-time experience in professional roadside development, site plan development, pollution prevention plan development, or watershed management.
- 2) Current, continuous experience in the state executive branch that includes eighteen months of full-time work as a Roadside Development Specialist 1.

Effective date: 09/18 KF