

CHARLES SOIL CONSERVATION DISTRICT

SOIL CONSERVATION ENGINEERING TECHNICIAN / PLANNER

I. NATURE OF WORK:

This is technical and planning work at a fully proficient level in soil and water conservation engineering. Employees in this class assist regional and local professional engineering conservationists in planning, designing, recommending and implementing soil and water conservation practices, such as agricultural waste management systems, roof runoff management systems, poultry waste storage structures, remote watering structures, shallow water control structures, shallow water wetlands, and contour cropping systems

Employees receive general supervision from the Charles Soil Conservation District Manager or other designated employee. This work involves performing technical engineering tasks at an advanced level of proficiency allowing for the exercise of independent judgment within broad guidelines and under limited supervision. In addition to performing the most difficult of sub-professional engineering duties, the employee assists professional employees in planning, recommending and implementing conservation activities. The employee applies methods and techniques of engineering and soil and water conservation principles and practices. Work assignments may be conducted outdoors in all types of weather conditions.

Work effectiveness of employees in this classification is determined by review of completed assignments and the soundness of recommended actions.

II. EXAMPLES OF WORK: (Examples are illustrative only)

Selects and applies designs for conservation engineering practices using best management practices (BMPs);

Works with landowners, operators and contractors in recommending or applying conservation practices;

Oversees the engineering and construction of structural conservation projects;

Checks construction of standardized conservation projects in progress or when complete;

Evaluates and proposes solutions to drainage and soil-related problems for individuals, groups or other units of government;

Makes topographic surveys;

Records complete survey information and plots topographic and cross section information;

Performs conservation planning duties, such as inventory and evaluation of land and farm operator, preparing and delivering maps and preparing finished plans;

Performs the design and layout of conservation practices, such as terraces, diversions, drainage ditches, irrigation systems, earth dams, land leveling, grade stabilization or other water control structures;

May oversee the work of survey parties and technicians;

May lead survey projects or other technical projects or programs;

Performs other related duties.

III. REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge of, experience with, and aptitude for basic engineering design methods via computer aided drafting is strongly desired.

Knowledge of soil and water conservation principles;

Knowledge of land surveying;

Knowledge of elementary engineering methods relative to the planning of soil and water conservation agronomic and structural projects;

Knowledge of basic agricultural terminology;

Knowledge of cropping and farming systems;

Knowledge of algebra and geometry;

Knowledge of soil and water engineering design principles;

Skill in the application of engineering practices in the areas of inventory, evaluation, design, and construction;

Ability to read and interpret plans and specifications;

Ability to review technical engineering designs;

Ability to develop plans for conservation practices;

Ability to compose simple and complex drawings;

Ability to perform routine computations;

Ability to communicate with engineers, architects, conservationists, landowners and others involved in soil and water conservation projects;

Ability to train and provide guidance to other employees;

Ability to work with other employees, contractors and the general public;

Ability to conduct public meetings or hearings.

IV. MINIMUM EDUCATION AND EXPERIENCE REQUIREMENTS:

Education: 60 credit hours in agricultural or civil engineering courses from an accredited college or university.

Experience: 1 year minimum in related and relevant conservation and/or environmental area of expertise.

Note: Experience in the field of soil conservation engineering may, only at the discretion of the Charles Soil Conservation District, be substituted for the required education on a year-for-year basis.

V. LICENSES, REGISTRATIONS AND CERTIFICATES:

Employees in this classification may be assigned duties which require the operation of a motor vehicle. Employees assigned such duties will be required to possess a motor vehicle operator's license valid in the State of Maryland.

VI. SALARY RANGE :

This position is grant funded on a yearly basis.

The combined salary and benefits package range for this position is \$30,000 – \$50,000. At the discretion of the Charles Soil Conservation District, the starting salary will be determined based on relevant educational and work experience.

Send resume to: Charles Soil Conservation District, P.O. Box 269, La Plata, MD 20646.

Resume must be received by closing time and date: 4:00pm on December 29, 2011.

Only prospective job candidates will be sent a job application form to be completed and returned to the Charles Soil Conservation District office.