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WORK EXPERIENCE

USDA, NRCS - 07/2012 - Present
3422 West Hammer Lane Suite A
Stockton, CA 95219
Agricultural Engineer (This is a federal job)

Duties, Accomplishments and Related Skills
I provide assistance in clarifying the programmatic guidance covering Conservation Practice 632 – Waste Separation Facility and how to implement applicable structural practice items, which include Planning, Designing and Construction of NRCS conservation practices and I have provided technical assistance to facilitate the construction, installation and payment of practice implementation. I have conducted over seventy (70) engineering site visits with landowners, planners or technicians for new projects to assist with planning and/or the implementation of conservation practices.
While continuing to review, monitor, and striving to improve organizational performance and achieve the agency mission: I helped to standardize the way NRCS implemented Microirrigation and Sprinkler Irrigation Systems in the San Joaquin County NRCS Field Office so as to streamline technical assistance provided to the farmers and ranchers in the county. These efforts, when applied with other conservation practices and initiatives, allow the field office to ensure that the best management practices are being implemented on irrigated crops. This with other guidance from the NRCS State Office allows the field office to be better positioned to support our customers as they continue to operate through one of the worst droughts in California State history. By taking this proactive visionary approach and working as a team, our local working group is able to apply field-focused tools that are rooted in reliable science-based data which produces high quality conservation deliverables to our customers. By providing clear guidance to customers, I assist them in understand my engineering designs, specifications and project-related documents to avoid any contract delays and meet California NRCS (NRCS) installation guidelines. I have worked with the NRCS Area 2 State Engineer to find a solution for a contract with environmental violation of the California State Central Valley Resource Water Board Region 5 (RB 5), which was functionally deficient in scope and had significant resource concerns that needed to be addressed. This required a collaborative effort and working with the State Nutrient Management Engineer for the NRCS Northern Region to assure that engineering support and workload for dairy participants are in compliance with the RB 5 standards. The complexities and diversity of the workload requires me to establish and maintain a working relationship with the State Nutrient Management Team in order to provide engineering support to dairy farm operators in San Joaquin County, CA. Also, while working on the local working group team to increase the number and quality of conservation practices implemented, I assist in the development of effective technical solutions in conservation plans and provide accurate Engineering and Inventory (I&E) project analysis to determine feasibility for NRCS financial assistance. I have consistently submitted time-sheets in a timely manner that are accurate and require little to no revision and details my time working under different program funding codes.
Also, I often foster, contribute and support a healthy workplace environment free of discriminatory bias and reprisals. I consistently adhere to EO/CR policies, regulation and legal statutes as I provide service to our customers. I endeavor to perform my duties and responsibilities in a way that demonstrate fairness, cooperation and respect towards others. This is achieved by being tactful and respectful toward both internal and external customers and continuing to respect the opinion of people with diverse experience, education, and beliefs. I encourage and create an atmosphere where leadership and staff are able to utilize and explore diversity and use creativity for future policy and actions. In addition to exceeding my performance objectives assigned and while working in a highly productive work area, I am able to continue to participate in outreach at the locally led working group level helping undeserved youths in the public school system of San Joaquin County towns of Manteca, Lodi, and Stockton, CA for the past three (3) years.

USDA, NRCS: 11/2010 - 07/2012
652 Rout 299
Suite 202
Highland, NY 12528
Civil Engineer (This is a federal job)

Duties, Accomplishments and Related Skills
In streamlining the NRCS local Team and helping to achieve a higher level of efficiency: I provided On the Job Training to NRCS staff, SWCD staff and partners on engineering policies, techniques, and procedures in developing conservation plans and practice designs for animal Waste Storage Facilities, Diversion and Waterways, Irrigation Water Management, Wetland Restoration, Water Conveyance Systems, Agricultural Mixing Facilities and helped field offices accomplish performance goals and be in compliance with agency policy. I assisted Senior Engineers providing formal training on engineering policies, techniques and procedures during Area meetings and scheduled follow-up training as assigned. I provided training to employees and partners in the coordination and use of manual and electronic survey equipment including total stations, hand-held data collectors, and survey grade GPS equipment. I assisted the Supervisory Engineer in assuring 90 - 100 percent of the engineering Job Approval Authority in the area are being followed, updated and appropriately assigned. I assisted in conducting engineering practice Field Office and Technical Service Providers Quality Assurance Reviews (QARs) each year as assigned.
I helped to establish and further develop working relationships with partnering agencies such as the NY DEC, NYC DEP, NYC Watershed Agricultural Council and others by consistently providing accurate timely advice to internal and external customers that adhere to NRCS standards. I kept apprised and informed the Senior Engineer of difficult and or controversial issues and unique problems as they related to ongoing projects and took action to effectively solve problems before they had an adverse impact on the Agency or other employees. I followed up with customers' inquires, requests, and complaints and kept customers informed of the status of their projects and clearly communicated with customers regarding mutual expectations and responsibilities. I provided support to field staff in communicating program and agency policies to customers during site visits and responded to follow-up telephone calls and e-mails in a timely manner. I ensured all my communications orally and or in writing were clear, correct, concise, and understandable so as to convey the intent of NRCS policies and standards. After the disasters caused by Hurricane Irene on August 26, 2011 and Tropical Storm Lee on September 7, 2011 I was tasked with working on EWP in six counties supporting efforts to provide Stream Bank Restoration and Protection. I designed and inspected a temporary dike that was constructed on a flood control dam as well as EWP work on two other flood control dams downstream in the flood plain. I have completed Damage Survey Reports on more than fifteen (15) stream bank protection sites and debris and sediment removal sites.

USDA, NRCS: 09/2008 - 11/2010
652 Route 299
Highland, NY 12528 United States
Engineer Technician (Civil) (This is a federal job)

Duties, Accomplishments and Related Skills
As a Civil Engineer Technician I collected, analyzed and interpreted data using survey grade GPS, Total Station, AutoCAD, ArcGIS, Web Soil Survey, Precip.net, TR-20, TR-55, EFH-2, etc., that provided technical support to assist the field staff in addressing resource concerns with engineering solutions during the development and implementation of conservation plans. I executed these objectives with the intended outcome of meeting watershed goals and objectives to increase the number and quality of conservation practices being implemented within the team. I lead 90 – 100 percent of the Total Station or Survey Grade GPS surveys requested by the field staff and assigned by my Supervising Engineer. I downloaded survey data, developed topographic maps and provided copies of this information to the Field Office staff within 10 days of the completed survey. I conducted site visits with field staff to identify resource concerns and potential solutions as requested by the field staff and assigned by the Supervising Engineer. I developed and submitted documentation such as trip reports and field notes. I provided assistance to field staff identifying Landowners' conservation needs and providing, with guidance from the State Irrigation Specialist, technically sound engineering solutions for Microirrigation, Waterline Conveyance Systems, Heavy Use Area Protection, Waterways, Animal Trail and Crossings and Agricultural Chemical Mixing Facilities with guidance from the Supervising Engineer.
I assisted the Watershed team in meeting its implementation and application goals by assisting with completing engineering designs for conservation practices to be installed. I assisted field staff in developing designs by providing detail drawings, plan view maps, specifications and design notes as requested by the field staff. I helped the Supervising Engineer keep track of submitted designs and approvals to engineering designs and make sure that they were being designed within employees' Job Approval Authority and as directed by the State Engineer so that the approved engineering designs were implemented without major

design rework. I monitored conservation practice installations to ensure that design issues and other problems were identified and resolved to minimize impact on implementation schedule with an outcome to increase the efficiency of the team. I acted as project inspector for assigned projects to assure installation was adhering to approved designs and modifications by the designer. I made periodic visits to project sites during construction as assigned to provide or receive On the Job Training; I supported the NRCS project manager and verified that NRCS policies and procedures were being met. I helped to resolve design issues and other problems identified by field staff during construction and inspection. While on site, I maintained a complete and accurate job diary on inspected projects as directed by policy and or the Supervising Engineer. Practice deficiencies identified during periodic spot checks were corrected within established time frames 80 to 95 percent of the time.

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, 05/2010

Rochester, NY United States
Major: Bachelor's Degree, Civil Engineering Technology
Minor: Environmental Studies

Relevant Coursework, Licenses and Certifications
Calculus for Engineer Technology (2) and Differential Equations for Engineer Technology, Structural Loads and System, Structural Analysis, Structural Steel Design, Timber Design & Construction, Structural Concrete Design, Structural Computer Application (STAAD), Computer Aided Design, Applied Mechanics of Materials, Route Surveying, Transportation Engineering, Soil Mechanics, Water/Wastewater, Chemistry of Water & Waste Water, Thermodynamics, Hydraulics, Static of Materials, Strength of Materials and Material Testing/Laboratory

ROCHESTER INSTITUTE OF TECHNOLOGY, 05/2010

Rochester, NY United States
Major: Structural Design Certificate

Relevant Coursework, Licenses and Certifications
Structural Design Certification course work: Structural Loads and System (12/2007), Structural Analysis (12/2007), Structural Steel Design (02/2008), Timber Design and Construction (02/2008), Reinforced Concrete Design (05/2008).

NASSAU COMMUNITY COLLEGE, 05/2006

Garden City, NY United States
Major: Associate's Degree, Civil Engineering Technology

ADDITIONAL INFORMATION

NRCS Engineer 11/2010 - 07/2012: Ulster County Soil and Water Conservation District in partnership with the New York City Department of Environmental Protection entered in an agreement with the Natural Resources Conservation Services (NRCS) to provide technical support in mitigating stream bank erosion and sedimentation and water quality issues in the Ashokan Watershed that should meet NRCS Standards. As such, an NRCS Engineer with a PE Licenses is assigned the task of providing forty (40) percent of their time to the Ashokan Watershed Stream Management Program. My supervisor at the time, who was the NRCS area engineer for twenty-six (26) counties, was assigned to the Ashokan Watershed Stream Management Program for two (2) years and is expected to be in that assignment for another five (5) years at the time.
At the time, I was the only other NRCS Engineer working in this area of the state providing engineering support to fifteen (15) counties and at times tasked to help with the workload in a few other counties as needed; I help provide support and coverage when my supervisor was working in the Ashokan Watershed. I was required to work with more independence and responsibility providing engineering designs and technical support for conservation plans and guidance on planning and implementation for Wetland Restoration, Microirrigation, Irrigation System Design, Water Management Systems, Well Development, Reinforced Concrete Design, Surface Hydrology and Hydraulic Analysis, Stream Bank Protection and Restoration, Heavy Use Area Protection, Stream Crossing, Animal Trails and Walkways, Waste Storage Systems, Bunk Silage Storage, Silage Leachate Systems and Vegetated Treatment Strips.