

Natural Channel Design Engineering Inc. (NCDE) is a Civil Engineering consulting firm with an interdisciplinary team of civil engineers and natural resource specialists. Together, our team provides civil engineering design and other science-based services that may include watershed assessment, geomorphology, hydrology, hydraulics, wetland and riparian restoration, stream and river restoration, bioengineering, drainage design, erosion control, and stream bank stabilization. NCDE is seeking a highly motivated **Civil Engineer** to join our team in Flagstaff, Arizona.

### **SUMMARY:**

This role of Civil Engineer at our firm is responsible for the preparation of detailed calculations, design drawings, design reports and construction contract documents for our wide variety of projects that typically vary from the traditional civil engineering infrastructure of other firms. Additional responsibilities include development of conceptual designs, preliminary design reports, technical memoranda, construction cost estimates and final plans and specifications for a wide variety of projects.

### **RESPONSIBILITIES:**

As a member of our team you will be responsible to:

- Prepare plans and design calculations using civil engineering principles for a wide variety of projects that may include varying project elements from traditional civil infrastructure to remote wildland watershed restoration;
- Assist with the preparation of Engineers' Opinions of Probable Cost;
- Coordination and communication with other team engineers, agency staff, clients, and other NCDE team members who are educated and trained in ecological, biological and environmental sciences;
- Participate in field data collection which may include use of survey grade RTK GPS equipment; basic laser level, survey rods and measuring tapes; and other data collection equipment;
- Perform hydrologic and hydraulic analyses;
- Attend project meetings and communication with clients and/or stakeholders;
- Assist in developing technical documents, including basis of design reports, presentations, exhibits/figures, drawings, tables, specifications, etc.;
- Perform other duties as may be assigned by the Project Manager or Project Lead;
- Perform calculations to analyze and design project elements using software such as HEC-HMS, HEC-RAS, HydroCAD, MS Excel, Rivermorph and other industry-standard applications;
- Develop construction documents using Autodesk Civil 3D and/or Trimble Terramodel;
- Implement sustainable engineering design principles;
- Coordinate with other NCDE team members of other disciplines and outside consultants to ensure compatibility with the total design of the project;
- Assists in the evaluation and selection of construction materials;
- Prepare and revise documentation in various project phases, including site plans, layout control and details;
- Assist in the construction administration of projects, including reviewing and responding to contractor material submittals, RFI's, and change order requests;
- and Perform other related work as assigned within the firm.

## **QUALIFICATIONS:**

The candidate should enjoy working in a team-oriented, collaborative environment with multiple team members of differing disciplines and expertise who will have input on the overall project designs to produce quality deliverables. This candidate must have the ability to participate in complex and varied projects, work on multiple projects simultaneously, exercise sound engineering judgement and consistently meet project deadlines while maintaining a high level of quality. This candidate will need to effectively communicate professionally and respectfully with all levels of the project team, including technicians, engineers, scientists, sub-consultants, contractors and clients. Candidate should be able to:

- Demonstrate competence in the use and application of AutoCAD Civil 3D and/or Trimble Terramodel.
- Have the ability to convey engineering decisions and concepts to both non-technical and technically based audiences.
- Demonstrate strong technical writing skills.
- Work within a variety of team environments, including varying team sizes and personnel.
- Periodically travel to remote locations and participate in the collection of field data.
- Organize and multi-task efficiently.
- Prioritize and meet multiple deadlines.

## **Education and Experience:**

- Must have a bachelor's degree in Civil Engineering or related engineering discipline from an accredited University.
- Prior civil engineering experience is preferred.
- Prior experience working in CAD and producing engineered construction plans is preferred.

**LOCATION:** This position is at our Flagstaff office

**COMPENSATION:** Compensation dependent on experience and skill level

## **ABOUT NCDE:**

Information about who we are and what we do can be found at our website at <https://ncdengineeringinc.com/>

NCDE is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, or veteran status.