

# Design Engineer III

## Position Summary:

A moderately experienced position, a Design Engineer III assists senior, professional engineers in design, development, and the provision of services/products for air transportation industry clients by applying engineering principles and technologies so as to exceed clients' expectations.

## Tasks:

Under the general guidance and supervision of professional engineers, incumbent performs a variety of engineering planning, design and construction phase assignments on a range of airfield projects such as:

- Horizontal and vertical geometry
- Grading and drainage
- Erosion and sediment control
- Pavement
- Prepares clear and concise reports
- Quantity take-offs
- Prepares plans and specifications
- Interprets Federal Aviation Administration and other regulatory design standards

## Knowledge, Skills and Abilities:

### General Knowledge:

- Broad knowledge and skills of civil engineering principles, practices, and methods
- Evaluates, selects, and applies standard techniques, procedures, and criteria to perform a task or sequence of tasks for conventional projects with limited complex features
- Collaboratively uses judgment to determine adaptations in methods for non-routine aspects of assignments
- Works on small projects or portion of larger projects
- Aviation knowledge or experience preferred

### Technical Responsibilities and Skills:

- Performs moderate design tasks
- Prepares portions of project documents
- Edits specifications
- Performs research and investigations
- Proficiency in Civil engineering/design/CADD software and other PC software packages typically associated with engineering required
- Proficiency in AutoCad Civil 3D required

### Abilities:

- Effective written and verbal communication skills which also includes successfully communicating technical information to non-technical persons
- Ability to assist client, customer, or official contacts pertaining to specific assignments
- Willingness and ability to work pre-determined and unscheduled hours beyond 40 hours per week as needed

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## **Managerial Responsibilities:**

- Assigns tasks and coordinates work with entry-level engineers, technicians, or administrative staff
- Assists in determining schedule and budget requirements

## **Physical Requirements:**

- Vision- near, color vision, and ability to focus:
    - Near Vision Acuity- requires clarity of vision at 20 inches or less and ability to read small text/print on documents and computer screen
    - Color – ability to identify and distinguish colors
    - Adjust focus- ability to adjust the eye to bring an object into sharp focus
  - Light physical activity- requires exertion up to 20 lbs. of force and/or up to 10 lbs. of force frequently, and/or a negligible amount of force constantly to move objects
  - Sitting- remains in seated position for extended periods of time
- Work under adverse conditions such as inclement weather and around heavy construction

## **Qualifications:**

- Bachelor of Science or Master of Science Degree in Civil Engineering or Engineering Technology from an ABET/EAC accredited program
- 4-6+ years of engineering experience; Engineer-in-Training required
- Professional Engineer License, preferred

## **Attributes:**

- Team player
- Enthusiastic, resourceful, and effective service attitude
- Quick learner and a Self-starter
- Comfortable working in a fast paced and frequently changing environment with multiple and competing deadlines

## **Disclaimer:**

The above statements are intended as only a summary of the typical functions, general nature and level of work being performed by persons in this job. It is not an exhaustive or comprehensive list of all job responsibilities, tasks, and duties. ADCI management reserves the right to amend and change, as necessary, any responsibilities, tasks or duties to meet business and organizational needs.

# Design Engineer III

I have reviewed and understood the preceding job functions required of the position should I be offered and willing to accept an offer of employment with Airport Design Consultants, Incorporated. I am prepared to meet the requirements of the position:

Without additional accommodation

With reasonable accommodation described below:

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I am not prepared to meet the responsibilities of this position.

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Signature

Date

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Print Name