

# Design Engineer VII

## Position Summary:

Extensively experienced Engineer VII designs, develops and provides services/products for air transportation industry clients by applying engineering principles and technologies so as to exceed clients' expectations. An Engineer VII also develops and maintains proposal leads.

## Tasks:

The 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
- Quantity take-offs
- Phasing Constructability
- Prepares clear and concise reports
- Project Scheduling
- Cost Estimates
- Marketing
- Prepares plans and specifications
- Interprets Federal Aviation Administration and other regulatory design standards

## Knowledge, Skills and Abilities:

### General Knowledge:

- Aviation knowledge or experience required
- Uses creativity, foresight, and mature judgment in anticipating and solving unprecedented problems and in planning, organizing, and guiding extensive programs and activities of major consequence
- Makes decisions and recommendations that are authoritative and impact extensively organizational activities
- Set priorities and reconciles directions from competing interests
- Leads or directs programs with complex features.

### Technical Responsibilities and Skills:

- Performs advisory or consulting work for the organization for broad program areas or intensely specialized areas requiring innovation
- Develops standards and guidelines
- Leads the organization in either a broad area of specialization or narrow but highly specialized field
- Proficiency in Civil engineering/design/CADD software and other PC software packages typically associated with engineering is required
- Proficiency in AutoCad Civil 3D required
- Proficiency in scheduling software preferred

### Abilities:

- Exceptional written and verbal communication skills Advanced and effective written and verbal communication skills which also includes successfully communicating technical information to non-technical persons
- Routinely and effectively interacts with organization leaders, clients, customers, officials, contractors, and others
- Initiates and maintains extensive contacts with key persons and organizations and companies
- Demonstrates skills in persuasion and negotiation of critical issues
- Negotiates critical and controversial issues with top-level engineers and officers of other organizations and companies
- Conducts presentations and may participate in media interviews
- Represents organization at highly visible functions such as conferences, interviews, meetings
- Willingness and ability to work pre-determined and unscheduled hours beyond 40 hours as needed

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## **Managerial Responsibilities:**

- Leads an entire program of critical importance
- Supervises several organizational segments or teams
- Recommends facilities, personnel and funds required to carry out programs
- Oversees the technical, legal, and financial issues of an entire program and organization
- Determines program objectives and requirements
- Develops standards and guidelines

## **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
- Minimum 15 years of engineering experience
- Professional Engineer required

## **Attributes:**

- Team player
- Enthusiastic, resourceful, and effective service attitude
- 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 VII

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