

CHAMPAIGN COUNTY REGIONAL PLANNING COMMISSION

POSITION DESCRIPTION

Position: Associate Engineer

Reports To: Transportation Engineering Manager

Position Purpose:

Position is responsible for wide range of transportation planning areas. This includes performing studies of traffic impact, traffic signal synchronization, corridor studies, access management and traffic forecasting. The position is also responsible for transportation modeling projects such as demand modeling and network modeling, advanced transportation planning analysis of arterial analysis and intersection capacity. The Associate Engineer works closely with the Transportation Engineering Manager and assists in the coordination of projects involving program planners.

Dimensions:

Responsible for 5- 8 analytic studies in a variety of traffic engineering and planning areas.

Responsible for long-term projects such as demand modeling and network modeling.

Works with representatives of equivalent responsibilities and experience from area cities, mass transit district, the University of Illinois, State of Illinois and Champaign County.

Nature and Scope:

Collects, analyzes and prepares studies as assigned in the areas of arterial analysis, intersection capacity, and safety studies through the utilization of transportation software such as SYNCHRO, HCS, TSIS, and TRANSYT.

Collects, analyzes and prepares studies as assigned in areas of traffic impact, access management, corridor studies, trip generation, signal operations, signal design, parking, and traffic forecasting through the utilization of transportation software such as SYNCHRO, HCS, TSIS, TRANSYT and/or CUBE to perform such studies.

Responsible for presenting studies to the CUUATS Policy Committee and other boards or committees as deemed necessary by the Transportation Engineer Coordinator.

Responsible for maintenance and operation of the transportation model.

Responsible for provision of data support and technical support for local modeling efforts.

Responsible for assigned transportation modeling projects utilizing such software as CUBE and ArcGIS.

Works closely with the Transportation Engineer Manager on projects assisting with larger-scope or longer-range projects.

Professional Requirements:

Bachelor's Degree in planning or civil/traffic engineering with three years experience in an engineering environment or a Masters Degree in traffic or transportation engineering.

Working knowledge of traffic engineering concepts

Working knowledge of principles and practices of transportation planning.

Working knowledge of transportation software such as HCS, SYNCHRO, TSIS, TRANSYT and CORSIM.

Working knowledge of network modeling software such as CUBE, CUBE VOYAGER and DYNASIM

Knowledge/experience, including areas such as design of roadways, intersections, signage, pavement markings, traffic signals, and cost estimating.

Experience with microcomputers is essential.

Strong analytical, written and communication skills.

Ability to work independently in performance of planning and completing assignments.

Experience at presenting transportation studies preferred but not essential.

Experience with Arc GIS is essential.

07/06