

YMF Mock Interview Program

Job Descriptions



Environmental Engineer

SUMMARY OF DUTIES

The qualified candidate will aid mid-level Engineers with pipeline, pump station, drainage and treatment plant planning, design and construction projects. Candidate will be responsible for data analysis, field sampling and report writing as well as preparation of plans and specifications. Must be proficient in AutoCAD and have strong writing, organizational and communication skills. Must have knowledge of GIS mapping and analysis and hydraulic/hydrologic modeling. Knowledge of regional and state agency permitting for wastewater, stormwater, and water supply is a plus.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- EIT or ability to obtain an EIT license within 1 year required.

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- AutoCAD Civil 3D; StormCAD, Pond Pack, Hydrocad
- ArcView/ArcMap (GIS) – (ArcPad a plus)
- Knowledge in WaterCAD or similar water infrastructure modeling as well as HEC-RAS and HEC-HMS a plus
- Proficiency in the Microsoft Office suite of products
- Strong organizational skills

YMF Mock Interview Program

Job Descriptions



Transportation Engineer

SUMMARY OF DUTIES

Under the direction of a Project Engineer or Project Manager, the candidate will perform several aspects of highway design including, but not limited to construction plans, typical sections, drainage and grading plans, highway profiles, earthwork sections and calculations, and erosion and sedimentation plans.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- EIT or ability to obtain an EIT license within 1 year required.

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- AutoCAD, including LandDesktop or Civil3D OR Bentley Microstation
- Proficiency in the Microsoft Office suite of products.
- Must have excellent written and verbal communication skills.
- Strong organizational skills

YMF Mock Interview Program

Job Descriptions



Traffic Engineer

SUMMARY OF DUTIES

Working under a Project Engineer or Project Manager, candidate will assist with the design of Intelligent Transportation Systems (ITS) and traffic signals, data collection and traffic analysis, and report preparation. Candidate will be responsible for meeting schedules, monitoring project budgets, and coordinating within office departments.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- Master's degree in Traffic Engineering is a plus
- EIT or ability to obtain an EIT license within 1 year required

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- Excellent analytical and communication skills
- Experience using CISSIM, Synchro/SimTraffic, SIDRA and/or other traffic analysis tools is preferred
- Proficiency in the Microsoft Office suite of products
- Strong organizational skills

YMF Mock Interview Program

Job Descriptions



Structural Engineer

SUMMARY OF DUTIES

Engineer will work on the structural design of transportation projects with responsibilities including, but not limited to: performing structural analysis and design, preparing complex bridge drawing, and writing technical documents. The engineer will be responsible for meeting schedules and project budgets. The candidate will work with senior engineers and CAD staff and be responsible for checking their work to achieve a high quality deliverables to clients.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- EIT or ability to obtain an EIT license within 1 year required

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- Experience working on PennDOT or Pennsylvania Turnpike Commission is desirable
- Knowledge of PennDOT software and other structural programs such as STAAD, MDX, or the equivalent is desirable
- Proficient at using spreadsheets to perform engineering calculations
- Proficiency in the Microsoft Office suite of products

YMF Mock Interview Program

Job Descriptions



Geotechnical Engineer

SUMMARY OF DUTIES

Duties would include, but are not limited to assisting the project engineer with geotechnical investigations for major development/construction projects, preparing and presenting proposals, scopes of work and budgets for new projects, preparing and reviewing technical reports, interpreting laboratory data, reviewing grading and foundation plans and providing on-site construction inspection of soils and foundations. Some travel may be required.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- EIT or ability to obtain an EIT license within 1 year required

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- Proficiency in the Microsoft Office suite of products
- Strong organizational skills

YMF Mock Interview Program

Job Descriptions



Construction Manager

SUMMARY OF DUTIES

The duties of this position include but are not limited to, leading project progress meetings, understanding and interpreting contract documents, updating CPM schedules, monitoring construction budgets and providing suggestions for unforeseen issues.

QUALIFICATIONS

- Seeking civil engineer (BSCE) with 0-3 years of experience
- EIT or ability to obtain an EIT license within 1 year required

WORK EXPERIENCE

- Engineering-related internship experience a plus but not required

REQUIRED SKILLS

- Excellent written and verbal communication skills
- Proficiency in Microsoft Office suite of products
- Knowledge of Primavera or Microsoft Project is a plus