

Hiring of MEP and Structural Engineer for the Project Titled “Establishment of Environmental Reference Lab Under Environmental Monitoring Center (EMC)”

1- Job Description for MEP Engineer

Location: Islamabad

Job Type: Contractual (10 Months starting from 2nd May 2025)

Salary: Competitive (based on skills and experience)

Reports to: Team Head/ Project Manager

Job Summary:

We are seeking a proficient MEP Engineer to design, analyze, and oversee mechanical, electrical, and plumbing (MEP) systems in various projects. The role focuses on ensuring systems are energy-efficient, safe, and compliant with regulations.

Key Responsibilities:

- Design and analyze HVAC, fire protection, plumbing, and electrical power distribution systems.
- Utilize BIM software like AutoCAD and Revit for design and project management.
- Conduct load calculations and system sizing for optimal performance.
- Develop engineering drawings, technical specifications, and reports for buildings, environmental laboratories, water and wastewater treatment systems.
- To design superstructure of monitoring vehicles as per requirement for reference Environmental Monitoring Laboratories.
- To prepare technical specifications of superstructure of monitoring vehicles for reference Environmental Monitoring Laboratories.
- **Communicate with vendors/suppliers/contractors and ensure the procurement and installation of items as per design/required specifications.**
- To verify the work done by the supplier / contractor regarding monitoring vehicles.
- Coordinate with architects and project teams for seamless MEP integration/supervision.
- Perform site inspections to ensure compliance with design and safety standards.
- Troubleshoot MEP system issues during construction.
- Optimize designs for sustainability and cost-effectiveness.

Requirements & Qualifications:

- Education: Bachelor's or Master's in Mechanical, Electrical, or related Engineering.
- Experience: Minimum 3 years in MEP design and project management.
- Technical Skills: Proficiency in AutoCAD, Revit, and MEP design standards.
- Connections/associations with market/suppliers
- Soft Skills: Strong problem-solving, communication, and teamwork abilities.

2- Job Description for Structural Engineer

Location: Islamabad

Job Type: Contractual (10 Months starting from 2nd May 2025)

Salary: Competitive (based on skills and experience)

Reports to: Team Head/ Project Manager

Job Summary:

We are looking for an experienced Structural Engineer to design, analyze, and oversee the structural integrity of facilities and infrastructure projects. The candidate should have expertise in developing and interpreting structural notes.

Key Responsibilities:

- Design and analyze structural systems to ensure safety and compliance.
- Conduct load calculations, material strength analysis, and seismic design.
- Prepare technical reports, feasibility studies, and material specifications
- Address construction challenges and propose & implement modifications when necessary
- Develop and review structural notes, engineering drawings, and technical reports.
- Perform site inspections and structural assessments to ensure project quality and compliance
- Perform structural risk assessments for environmental management facilities such as wastewater treatment plants to mitigate failure risks
- Collaborate with architects, contractors, and project managers to develop cost-effective solutions
- Troubleshoot structural issues during project execution.
- Utilize engineering software like SAP2000, STAAD Pro, and AutoCAD for analysis.
- Ensure designs comply with local and international building codes and best practices.
- Assist in project budgeting, scheduling, and risk assessment
- Stay updated with emerging trends, materials, and sustainability practices in structural engineering
- Design and analyze structural elements for environmental management facilities such as wastewater treatment plants and their components, including tanks, basins, foundations, and support structures
- Ensure corrosion resistance and durability of structural components exposed to aggressive wastewater environments
- Evaluate seismic, hydraulic, and environmental loads on environmental management facilities' structures
- Work with process engineers to integrate structural designs with mechanical and treatment processes
- Assist in the rehabilitation and retrofitting of aging wastewater infrastructure
- Ensure structural integrity of piping supports, walkways, access platforms, and treatment tanks

- Support sustainability efforts by incorporating green materials and innovative structural solutions

Requirements & Qualifications:

- Education: Bachelor's or Master's in Civil or Structural Engineering.
- 3-5 years of relevant work experience at a reputable firm.
- Experience: Minimum 3 years in structural design and analysis.
- Technical Skills: Proficiency in AutoCAD, STAAD Pro, SAP2000, and structural codes.
- Ability to develop and interpret structural notes.
- Soft Skills: Excellent analytical, communication, and project management skills.

How to Apply: Interested candidates are requested to submit their CV and Cover Letter to the Project Head via email at s.jamal@iese.nust.edu.pk