

Cathodic Protection Design Engineer

Job Summary:

We are seeking a seasoned Cathodic Protection Design Engineer to lead the basic design of cathodic protection systems for underground pipelines in Europe. The role involves delivering schematic drawings, technical descriptions, and preliminary calculations in compliance with regional standards and international codes such as NACE SP0169 and CFR 192 Appendix D.

Key Responsibilities:

- Develop **basic cathodic protection (CP) designs**, including:
 - Schematic layout of CP systems (impressed current and sacrificial anode types)
 - Technical descriptions outlining design rationale and system components
 - Basic design calculations (current requirements, anode life, rectifier sizing, etc.)
- Ensure designs conform to **European regulations, NACE standards**,
- Collaborate with geotechnical and electrical engineers to assess:
 - Soil resistivity and site-specific conditions
 - Interference risks with adjacent infrastructure
 - Environmental and safety constraints (e.g., AC interference, coating compatibility)
- Review and analyze field data (e.g., soil resistivity surveys, pipeline routing) to guide and validate design assumptions.
- Produce high-quality design documentation, including:
 - Design basis reports
 - Equipment lists
 - Preliminary bill of materials
 - Interface specifications
- Provide technical input during procurement and construction planning phases.

Qualifications & Skills:

- Bachelor's or Master's degree in Electrical, Materials, or Corrosion Engineering
- Minimum 15 years of experience in cathodic protection design, with at least 5 years on European pipeline projects
- Deep knowledge of:
 - Impressed current and galvanic CP systems
 - Design software and EDA tools used in CP engineering
 - International codes: NACE SP0169, EN 12954, ISO 15589
- Proven experience preparing schematic drawings and CP layout plans
- Strong documentation and calculation skills
- Excellent communication and project coordination capabilities
- NACE CP2 (Technologist) or CP3 (Technologist/Advanced) certification preferred