



Example of Junior System Engineer Job Description

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Our company is looking for a junior system engineer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

Responsibilities for junior system engineer

- Interconnections studies (Load Flow, Short Circuit, Transient stability)
- Transient studies including Transient Recovery Voltage (TRV), insulation coordination and harmonics
- Reactive compensation studies
- HVDC/FACTS studies
- Feasibility studies (lines, substation, generation)
- Techno-economic studies
- Design studies (grounding, lightning, emissions and electromagnetic induction, audible noise, sizing of cables and conductors)
- Technical due diligence reports for asset acquisition
- Data collection, technical model development, simulations and results analysis, report redaction and PowerPoint presentations
- HVDC, FACTS and renewable energy (wind, solar) system design , including dynamic simulations, parameter setting and preparation of specifications

Qualifications for junior system engineer

- Minimum one year of experience in communication systems engineering through internships or first work experience
- Fluency in English and any other languages will be considered as an asset
- Readiness to travel internationally, and meet directly with customers
- This project requires an interdisciplinary mind-set, since collaboration with

- Organizational, planning and management skills in the operation of a critical system
- Rigorous and very adaptable