

JOB SPECIFICATION

JOB TITLE: Renewable Energy Engineer Junior	
DIVISION:	Energy
LOCATION:	Midrand (Gauteng)
REPORTING LINE:	Principal Associate

THE COMPANY:

WSP is one of the most diverse consulting firms globally and within Africa (<https://www.wsp.com/en-za/>). To further our strategic business expansion plan, we are seeking new employees who are loyal, committed, competent, and proud to work for us. We are committed to achieving and maintaining diversity and equity in employment.

KEY ROLE:

WSP South Africa is looking for an aspiring and passionate Junior Renewables Engineer who will function as a technical consultant for utility-scale Solar PV and Wind Energy projects in Southern Africa and be able to support international business as required.

A commitment to registration as a candidate engineer with ECSA to obtain a PrEng registration within 3-5 years is required; however, existing professional registration with ECSA is considered advantageous. Up to 50% travel to clients, sites and manufacturers premises is envisaged. The role will require foreign travel, specifically travel within Africa.

KEY RESPONSIBILITIES:

- Managing high-quality quality technical advisory works.
- Project management and interfacing between engineering disciplines (mechanical, electrical, civil and control & instrumentation);
- Provide technical input from initial assessment through to technical and economic feasibility of the solar PV /Wind projects and integration with other electrical or generating plants as necessary.
- Review overall project design and suggest technical and design improvements.
- Preparation and management of technical specifications, bills of materials, tender stage management and evaluations, negotiation and selection of Balance of Plant, Operation & Maintenance or EPC, and other supply contracts.
- Technical reviews/negotiate key construction contracts for, and alongside, clients.
- Due diligence of solar PV projects and support Sponsor(s) and Lender(s) throughout the Financial Close process including technical liaison with legal and financial advisors.
- Risk management, including construction, operational, and financial risk as well as internal WSP risk management.
- Assessing technical risks and proposing mitigation strategies to reduce risk exposure in project CAPEX, OPEX, and revenues.
- Monitoring project construction and acceptance including site visits and commissioning supervision; and
- Assist with and/or conduct any other necessary aspects of a project that fall within the discipline of the role.

Health and Safety

- Role model standards for SHEQ performance and behavior consistent with the company’s health, safety, environmental, and quality vision and policies by influencing those around you.
- Contributing to the identification of SHEQ risks and driving processes to achieve Zero Harm.
- Embracing, displaying, and promoting the company values and ensuring a safe working environment is maintained at all times.

QUALIFICATIONS AND EXPERIENCE REQUIRED:

- BSc/BEng in Mechanical or Electrical Engineering. Master’s in Renewable Energy/Smart Grids/Power Systems preferable.
- 0-2 years’ experience in Solar PV technology with experience in Wind Technology considered very advantageous. A mix of South African experience (REIPPP) and regional overseas experience is also preferred.
- **Basic** knowledge and field expertise regarding solar PV/Wind turbine technologies including emerging technologies in the international renewable energy market.
- Technical advisory experience towards investors, project developers, and banks (conceptual understanding).
- Knowledge of various solar PV applications (utility-scale, ground-mounted, building-mounted, fixed tilt, single-axis, and multi-axis tracking).



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- Experience covering a range of solar PV plant lifecycle delivery (including feasibility and development engineering, construction monitoring, witnessing testing and commissioning activities, and operational monitoring/inspections) is preferable.
- Knowledge of solar PV plant designs, Energy Yield Assessment, layouts, and connection interfaces is preferable.
- ECSA registration as a Candidate is required and/or will be required in within the first year of employment.

KEY COMPETENCIES AND GENERIC SKILLS:

- Minimum 0-2 years of postgraduate experience, preferably in the wind and solar industry.
- Ability to work within a team of engineers.
- Good communication skills
- Good technical report writing skills.
- Ability to manage time, quality and effort in order to deliver a quality product within time and cost constraints.
- Ability to coordinate and manage projects.
- Ability to work under pressure.
- Must be able to function independently.

CONTACT PERSON:

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CLOSING DATE FOR APPLICATIONS:

15 Nov 2024