


Détail de l'offre : Power Distribution and Electric System Research Engineer

Partenaire	 EDF China
Adresse	Pékin
Ville	Pékin
Référence	24D1713343532
Titre	Power Distribution and Electric System Research Engineer
Description du poste	<p>YOUR MISSION</p> <p>EDF R&D has three centres in France and six abroad to capture world energy sectors innovations and collaboratively perform applied research to tackle some of the world toughest energy challenges. You will join EDF R&D China center located in downtown Beijing. You are expected to be guided under a Senior Grid Engineer and work closely with other related departments colleagues to support a broad range of Power System Research & Development on topics such as resilient distribution network, inverter- based renewable energy and energy storage integration, direct-current distribution, and power grid digitalization.</p> <p>More specifically you will help the development of technical strategies and performing power system simulations to serve the projects' needs. These needs can be the modeling power system dynamics in conjunction with power electronics systems, technical-economic evaluation of an innovative solution and the preliminary selections on technical alternatives based on literature research. You will also involve in cooperation and project development with Chinese academic and industrial partners.</p> <p>We value great talents and will provide the tailored mentorships to fit individual's career development needs. With high penetration of inverter-based resources in the grid network, the global utilities are facing similar technical and regulatory challenges to ensure a stable, reliable and resilient power grid. If you are an independent researcher who are seeking a unique, challenging, and rewarding future career opportunity to build technical links between France and China, especially in the next generation of electric power system area, EDF R&D China centre may be the right place for you.</p> <p>YOUR WORK</p> <p>You will work in the Integrated & Decarbonized Energy Systems group - future grid team located at EDF China R&D Centre in Beijing. Your activities may include the following scopes:</p> <ul style="list-style-type: none"> *□ Perform technical literature review on identifying and developing innovative substation digitalization and distributed energy resources (DERs) control strategies to ensure reliability, stability and resilience of future power systems; *□ Feasibility study supports via modern software simulation for power distribution system static and dynamics behaviors in conjunction with power electronics systems under different inverter control strategies (i.e., grid-forming control); *□ Power quality, fault analyses and protection scheme developments & coordination for AC / DC distribution systems; *□ Technical-economic analyses for DC power distribution systems, solar/energy storage, virtual power plants (VPPs) / microgrids, and DERs projects; *□ Experimental data recording and analyses via applying scripting or programming as needed; *□ Help participations associated with international standards development and industry consensus building; *□ Assist the development of new business and research projects collaborations with local EDF business units as well as industrial and academic partners by contributing to analyses and proposals.
Type de contrat	Emploi
Localisation	Pékin □□
Pays	Chine
Profil recherché	<p>REQUIRED SKILLS</p> <ul style="list-style-type: none"> □ Master or PhD degree in electrical engineering ideally focusing on electric power system or power electronics, control and automation; □ Solid power system knowledge, good computer and programming skills, be familiar with the electric power systems simulation and other numeric computing tools (e.g., MATLAB,

OpenDSS, PowerFactory, PSCAD, eTAP);

• Professional, independent, positive attitudes with self-motivations and team spirit to work in a multicultural environment.

LANGUAGE SKILLS

• Fluent English both written and spoken; Chinese, mother tongue; French is a strong plus.

CONTACT

For applying this job, please send at least the following materials:

- Your English CV with GPA included and/or a cover letter;

- An unofficial transcript or courses list.

to Yili XIONG, yili.xiong@edf.fr and WANG Xia, xia.wang@edf.fr.

Open until filled

Review Process begin in May 2024

Secteur Électronique et Équipements électriques

Langues Anglais