



## Senior Engineer – Wind Farm Electrical Integration

Number of positions: 1

### ***JOB DESCRIPTION:***

Under the direction of the Vice-President of Engineering, the *Senior Engineer – Wind Farm Electrical Integration* will be responsible for the execution of technical studies which focus on the optimal integration of wind farms to the electrical grid. More specifically, he/she will coordinate, direct when needed, and collaborate with geographically dispersed engineering teams on studies on the feasibility, design, operations and performance of wind farm interconnection to the electrical grid of each province.

### ***PRIMARY RESPONSIBILITIES:***

- Carry out preliminary and detailed technical studies on the integration of wind farm electrical production onto the electrical distribution grid
- Meet with clients to establish and understand their needs
- Prepare cost estimates and budgets for the construction and maintenance of wind farms and for electrical infrastructure upgrades
- Coordinate the work of geographically dispersed engineers studying the electrical integration of wind farms (statistical studies, demand, production, project specifications)
- Work directly, when needed, within the engineering teams in carrying out the above-mentioned studies
- Write progress reports detailing the results of such studies
- Support clients in their communications with electrical production, transmission and distribution companies
- Support and advise clients during the wind farm design phase on matters concerning the choice of optimal electrical integration solutions for wind farms
- Participate in the assessment of bids
- Communicate, when needed, with public and parapublic authorities which require information or data relative to wind farm electrical integration
- Participate in the development of tools necessary for the optimal configuration of wind farms and produce calculation codes needed by the engineering team
- Write technical reports and, when needed, participate in the presentation of the result of technical studies
- Perform an adequate technology watch of any technological development applicable to wind farm electrical integration and interconnection
- Support the development of business opportunities related to his/her field of expertise

### ***REQUIREMENTS:***

#### *Education and/or experience:*

- Diploma in electrical engineering; Quebec engineering licence or eligibility therefor
- Minimum of 5-7 years' experience in a relevant field, including at least two years in the design and/or realization of electrical production or grid infrastructure
- Background in project management in a technical discipline

### ***QUALIFICATIONS:***

- Ability to manage several complex projects concurrently
- Excellent understanding and knowledge of electrical grid issues
- Ability to prepare electrical grid infrastructure budgets (electrical lines, sub-stations)



- Excellent written and spoken English and French
- Proven ability to produce written reports in English (and in French, preferably)
- Excellent skills in management and interpersonal relations
- Command of MS Office software, particularly Excel and Word
- Familiarity with relevant programming languages (e.g. C, Visual Basic) and statistical calculations (asset)
- Knowledge of grid modeling software (asset)
- Knowledge of regulations in effect amongst energy production and distribution companies (codes, standards, etc.) (asset)
- Comprehension of the wind energy industry (asset)

***DESIRED QUALITIES:***

- Scientific rigour
- Methodical, organized, meticulous, detail-oriented nature in addition to a sharp understanding of the global nature of the issues at hand
- Capacity to manage/coordinate technical staff
- Ability to work alone or in a group
- Ability to learn quickly

Need to travel: Limited

Submit CV and cover letter to Gérard Bozet, Vice-President, Administration and Corporate Development

Fax: (514) 272-0410 / E-mail: [info@helimax.com](mailto:info@helimax.com).

Only candidates selected for an interview will be contacted. Please do not call.