



Role

CSP Engineer

Barcelona, Spain

Purpose of the role

Consultant Engineer in CSP energy to join the Solar Department in Barcelona. Undertaking CSP energy assessment, Due Diligence analysis and other specific commercial tasks required by our clients, you will contribute to the expansion of the Solar department.

In addition you will be able to develop internal solar assessment tools for dealing with the Direct Irradiation measured on site and correlated with satellite data. The use and comparison of typical thermal software packages will be also needed.

Responsibilities

- Undertake CSP energy production assessments which include – site visits to define the horizon line, Direct Irradiation data processing and quality checking, correlation analysis with satellite data, simulation of the CSP plant performance with standard thermal software packages in the industry, estimation of other factor losses, statistical analysis of the uncertainty and produce a report with conclusions and recommendations to reduce the global uncertainty of the results.
- Undertake CSP Due Diligence analysis which include- technology review (troughs, dishes, Fresnel and tower concepts), contract review, permit review, opinion on the costs, site visits during the construction and Provisional Acceptance, technical inspection at the end of the warranty period and operation monitoring on a monthly or quarterly period.
- Inspection of CSP manufacturing facilities (tubes, mirrors, etc) in order to provide a Bankable report on the technology of new players in the market.
- Produce detailed reports which review the feasibility of sites for development which will include generation of a draft design, assumption of typical performance for a given technology, use of direct irradiation satellite data bases and feasibility studies.
- Analysis of production data of CSP existing plants (commercial and pilot plants) and irradiation data in order to improve our methodology and contribute to develop internal tools for CSP plant simulation and data handling.
- Work in a global team with good communication skills in order to provide technical support for projects in Europe, America, Asia and Middle East.
- Managing multiple projects to ensure they are completed within timescale and budget.
- Responsibility for proposals and internal budgeting, which will be checked and approved by Solar Manager.
- Any other duties as directed by line manager.

Essential skills and experience

On appointment:

- 2 years experience of CSP energy assessments and/or Due Diligence analysis
- Strong analytical skills and an aptitude for analysing statistical data.
- Excellent knowledge of MS Office
- Familiarity with typical CSP software packages and other thermal software packages
- Familiarity with CSP supply chain and market technology
- Excellent organisational and time management skills

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Role

- Fluency in English
- Ability to write and compose clear and accurate reports in English
- Spanish language would be an advantage
- Ability to work in a pressurised consultancy environment – operating to tight timescales.
- High motivation to work in a team

Desirable:

- Exposure and familiarity with CSP energy at the consultancy or engineering level for North American and Spanish projects under construction or development.

Key internal and external contacts

- Manager of Solar in Barcelona: reporting, decision-making and issue escalation.
- Director of Ibérica – for management support while the Solar manager is on leave or unavailable
- Staff Ibérica in Zaragoza
- Other staff from France, Italy, Germany, Turkey, USA, Canada, Mexico, Brasil, India, Australia, Japan and China
- Clients and stakeholders for projects – geographically spread across the world. Regular contact through email and telephone exchanges will be required with occasional meetings and site visits.
- External organisations/professionals – review of methodologies and discussion of best practice approaches where appropriate.
- Conferences/Exhibitions- attendance to be updated in CSP technology and presentation of papers
- Internal Induction course – presentation of CSP solar work to newcomers within our organisation. This course is centralised in Bristol.

Additional Information

Hours

- 37.5 hours per week, 7.5 hours per day
- The above time table is flexible and it is not applicable while travelling or working abroad

Travel

- Position will require some site work and travel to other offices in particular within Europe. Travel to USA from time to time may be also necessary.

Other

- Training on solar general methodology and services in Renewables will be provided but the candidate is supposed to be able to develop internal tools and specific methodology for CSP energy