Energy System Modeller – Job Specification

Codema, Dublin's Energy Agency, has an opportunity for an Energy System Modeller to work with our Energy Planning & Policy team to assist with the development of the Dublin Region Energy Masterplan. We are looking for a driven individual who is passionate about working in the low-carbon energy sector and engaged in the climate change movement.

This opportunity will give the successful candidate the unique experience of working on the first regional energy masterplan in Ireland, and working with our clients, the Dublin municipalities, to integrate the results of the masterplan into their current and future practices. Codema is well connected to Europe, and we are also involved in multiple EU projects. The successful candidate's work will also feed into the EU 'TOMORROW' project, which involves partner cities in Serbia, Romania, Belgium, France & Spain, and so this position may require international travel.

Codema was set up in 1997 and today remains the leading adviser for energy and climate change in Dublin. Our professional staff have worked extensively with the Dublin Local Authorities to help them meet energy regulations, cut costs and reduce their carbon footprint, which will benefit the environment and improve the quality of life for those who live and work in the Dublin area.

Codema actively encourages good job satisfaction and personal professional development amongst staff and facilitates a healthy work-life balance through flexible working hours.

For more information, please visit our website at: www.codema.ie.

Position: Energy System Modeller

Role and responsibilities:

Working with the Energy Planning & Policy team and under the supervision of the line manager, the candidates responsibilities will include;

- Coordinate with local and national stakeholders and gather energy related data for the Dublin region
- Working with energy data through a combination of modelling tools; MS Excel, QGIS, energyPRO and energyPLAN
- Carry out detailed modelling of current energy production & consumption and associated GHG emissions from the electricity, buildings and transport sectors in Dublin
- Forecasting and modelling the future energy production and consumption in Dublin in 2030 and 2050 scenarios
- Modelling low-carbon and renewable energy potential in Dublin
- Modelling and optimising various scenarios utilising available low-carbon & renewable energy
- Communicating findings to technical and non-technical audiences
- Working with supporting external researchers from academia
- Deliver outputs and key milestones within given timelines
- Written reports on methodologies & progress updates

Minimum Requirements:

- Minimum Masters level degree in relevant discipline (e.g. energy related engineering discipline)
- Proven experience in Computational Modelling & Analysis of Energy Systems
- Basic understanding Geographical Information Systems (GIS)
- Proven experience of professional report writing and communication skills

Additional skills that would be a distinct advantage:

- 1-2 years experience working in energy-focussed research or industry
- Thesis or published papers in energy planning/modelling
- Experience with energyPLAN, energyPRO and QGIS software packages
- Experience modelling Irish energy systems
- Knowledge of Irish energy policy
- Experience working on EU or nationally funded projects

Location: Codema, 2 - 4 Crown Alley, Temple Bar, Dublin 2.

Duration: 2 years

Indicative Salary: €32k – €38k

To Apply: Please email your CV and cover letter to Paula Hempenstall at codema@codema.ie

This application is for stage one of a two-stage interview process

Closing Date for applications: 17th May 2019

Codema is an Equal Opportunities Employer