

Position Description

Position	Software Engineer BI
Business Unit	Product Development
Region	Asia Pacific, India
Reports to	Software Engineering Manager
Direct Reports	N/A

About Energy Exemplar

Energy Exemplar is the global market leader in the technology of optimization-based energy market simulation. Our software suite, headlined by PLEXOS and Aurora, is used across every region of the world for a wide range of applications, from short-term analysis to long-term planning studies.

Driven by the frenetic pace of advancements in computing technology and mathematical algorithms, our people continually think of novel approaches and more realistic simulations that enhance decision making, create market opportunities that benefit us all and enable utilities and regulatory authorities to become smarter, more energy efficient and profitable.

Energy Exemplar continues to 'push the envelope', being first-to-market with the latest advances in mathematical programming and energy market simulation theory, as it strives to offer the most comprehensive simulation software to its customer base. Development continues to be headquartered in Adelaide, South Australia, led by Glenn Drayton and backed by a team with expertise in software development, operations research, economics, mathematics, statistics, and electrical engineering.

Our Vision and Core Values

Our **Vision** at Energy Exemplar is to empower our customers to achieve their optimal futures and we make every effort to accomplish this by living and breathing our **Core Values**:

CUSTOMER SUCCESS

- Solve the problems that matter
- Deliver solutions that drive outcomes
- Customers' success drives our business success.

ONE GLOBAL TEAM

- A place where everyone can do their best work
- Passionate about making a positive impact
- Collaborate, communicate and act as one team

INTEGRITY & OWNERSHIP

- Take ownership and be accountable for outcomes
- Value spirited debate then align behind decisions
- Operate at the highest standards

INNOVATION EXCELLENCE

- Frontrunners – relentlessly pursuing innovation and excellence
- Foster idea generation at all levels
- Create the future by pushing the boundaries of today

About the Position

Want to shape the future of Energy through Data Science? We all know that without good data there is no Data Science. If you let garbage in, it will emit the garbage out. 60-70% efforts in a data science project are spent in Data Engineering & Feature Engineering. That's where we need your skills to fetch the data from disparate sources, transform it the way business needs (that may also include applying lots of critical business logics per its source and nature) and load it in a data warehouse / big data systems. These critical pieces of works complement the Data Scientist, with a continuous feedback loop based on how a model is performing and what fine tuning is needed in the data. The Energy Exemplar (EE) data team is looking for an experienced Data Engineer to join our Pune office. As a dedicated Data Engineer on our Research team, you will apply data engineering expertise, work very closely with the core data team to identify different data sources for specific energy markets and create an automated data pipeline. The pipeline will then incrementally pull the data from its sources and maintain a dataset, which in turn provides tremendous value to hundreds of EE customers. At EE, you'll have access to vast amounts of energy-related data from our sources. Our data pipelines are curated and supported by engineering teams. We also offer many company-sponsored classes and conferences that focus on data science and ML. There's great growth opportunity for data science at EE.

Key Stakeholder Relationships

This position works closely and collaboratively with all Energy Exemplar staff but in particular:

- Indian Development Centre colleagues
- Senior IDC Management
- Chief Product Officer
- Global Product Delivery Team
- Global Product Development Team
- Global Support Team

Key Accountabilities and Duties

The following list is provided to set an expectation of the 'core' responsibilities of the role but is not intended to be an exhaustive list that covers all tasks that may be required on a day-to-day basis. As a rapidly growing business, it should be expected that the role and associated tasks are likely to evolve over time and that there will be situations where tasks not listed below will need to be undertaken to support region and business growth initiatives.

Key Accountabilities

- Develop, test and maintain architectures, such as databases and large-scale processing systems using high-performance data pipeline.
- Recommend and implement ways to improve data reliability, efficiency, and quality.
- Identify performant features and make them universally accessible to our teams across EE.
- Work together with data analysts and data scientists to wrangle the data and provide quality datasets and insights to business-critical decisions.
- Take end-to-end responsibility for the development, quality, testing, and production readiness of the services you build.
- Define and evangelize Data Engineering best standards and practices to ensure engineering excellence at every stage of development cycle.
- Act as a resident expert for data engineering, feature engineering, exploratory data analysis.

Candidate Requirements

Skills, Knowledge and Experience:

- 2+ years of professional experience in developing data-pipelines for large-scale, complex datasets from varieties of data sources.
- Data Engineering expertise with strong experience working with Big data technologies such as Hadoop, Hive, Spark, Scala, Python etc.
- Experience working with Cloud based data technologies such as Azure Data lake, Azure Data factory, Azure Data Bricks highly desirable.
- Knowledge and experience working with database systems such as Cassandra, HBase, Cosmos etc.
- Moderate coding skills. SQL or similar required. C# or other languages strongly preferred.
- Proven track record of designing and delivering large-scale, high quality systems and software products.
- Outstanding communication and collaboration skills. You can learn from and teach others.
- Strong drive for results. You have a proven record of shepherding experiments to create successful shipping products/services.
- Experience with prediction in adversarial (energy) environments highly desirable. Position Description

Qualifications:

- Engineering graduate or higher from Tier I or Tier II colleges.
- A Bachelor or Master's degree in computer science or Engineering with coursework in Statistics, Data Science, Experimentation Design, and Machine Learning highly desirable.