

Position Description

Principal Software Engineer



BUSINESS UNIT	Product Development
REGION	Asia Pacific,Pune, 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 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 Role

Reporting to the Software Engineering Manager as a member of the Development team at IDC, the Principal Software Engineer is responsible for delivering quality and performant software and design to handle the vast array of use cases that our customers have today.

As a Principal Software Engineer, you will help define and architect products, algorithms, and data systems that deeply integrate core software and services to drive innovations. You will obsess over data, metrics, algorithms, mechanisms, and incentives that unlock innovation and scalability opportunities across the company. This role is inherently cross-functional, working with core software systems across the company.

Responsibilities:

- Serve as a technical lead on our most demanding, cross-functional projects.
- Ensure the quality of architecture and design of systems.
- Functionally decompose complex problems into simple, straight-forward solutions.
- Analyze and improve data quality and metrics.
- Fully and completely understand system interdependencies and limitations.
- Leverage knowledge of internal and industry in design decisions.
- Assist in the career development of others, mentoring on advanced technical issues and helping managers guide the career growth of their team members.
- Exert technical influence over multiple teams, increasing their productivity and effectiveness by sharing your deep knowledge and experience.
- Skilled in translating high level abstract business requirements into software design, designing systems specifications, standards, and programming
- Contribute to Architectural blueprints and Design for the software solutions
- Mentor team on engineering best practices such as writing clean code, designing scalable, reliable and performant software solutions, set and ensure compliance to software quality standards etc.
- Be a role model for the team with innovative thinking, passion for continuous learning and contributions to the project.

Qualifications, Skills & Experiences

- BE / B.Tech /M.Tech in Computer Science, Data Science, or a related field with 10+ years of experience from reputed College/ University
- Minimum 8+ years of experience building large scalable systems
- Minimum 5+ years of recent experience in building products on cloud
- Strong knowledge in OOPS with .Net, C# with SQL Server or any RDBMS
- Strong experience in architecting and building multi-threaded, distributed systems.
- Strong knowledge of data structures, algorithms, and designing for performance.
- Working experience of Redux is essential
- Experience in UI development with minimum two enterprise grade JS frameworks like Angular 4+, VueJS, ReactJs or others– Proven track record of having designed and deployed large scale & low latency cloud-based systems
- Outstanding problem-solving abilities.
- Ability to achieve stretch goals in a highly innovative and fast paced environment.
- Sound business judgment, proven ability to influence others and strong analytical thinking skills.

- Extensive experience of mentoring junior engineers to success.
- Experience with Microservices Architecture
- Exert technical influence over multiple teams, increasing their productivity and effectiveness by sharing your deep knowledge and experience.
- Working knowledge of CI/CD pipelines and AWS/Azure cloud services is essential
- Hands on experience of building products for unix systems in addition to windows is good to have
- Very good communicator

Education:

- Engineering graduate or higher from Tier I or Tier II colleges.

Key Stakeholder Relationships

This role works collaboratively with all Energy Exemplar staff, particularly:

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