U.S. Department of Energy

Energy Information Administration

The first place to go for the last word in energy information

Operations Research Analysts

Thirty years ago, Congress decided that high-quality information enhances wise energy decisions, and so created the Energy Information Administration (EIA) within the Department of Energy. EIA has forged a world-class information program that stresses quality, teamwork, and employee growth. In support of our program, we offer a variety of professional positions, including the Operations Research Analyst, whose work is associated with the development and maintenance of energy modeling systems.

Responsibilities:

Operations Research Analysts perform or participate in one or more of the following important functions:

- Develop, design, perform, and document a **broad range of analyses and studies** involving current and projected energy pricing, production, supply, and distribution, and consumption
- Using computer programming skills and knowledge of energy industries and markets, **designs and develops mathematical models** (e.g., matrix algebra, LP's, non-linear programs, linear and non-linear set of equations) to represent these industries and markets; and analyzes resulting output data to confirm that the relationships built into the models are accurate
- **Keep up-to-date with changes in energy industries and markets**, including the effects of new and emerging technologies, rapidly changing industry practices, mergers and restructurings, new legislation and regulations, and other changes affecting energy production, pricing, supply and distribution patterns
- Use analytic techniques to **analyze data quality** and identify options for resolving quality issues
- **Keep up-to-date with advances in quantitative analysis techniques**
- **Contribute analyses** to EIA publications and special reports
- Develop **presentations and Congressional testimony** to be used by senior-level officials
- **Prepare written and oral reports** and answer questions from the public

Core Qualifications:

- A Bachelor's degree that demonstrates superior academic achievement and includes 24 semester hours in operations research, mathematics, probability, and/or statistics, of which 3 semester hours must be in calculus.
- Knowledge of the application of standard quantitative techniques, applied linear algebra, linear and non-linear programming; highly desirable to have evidence of skill in programming in a higher level programming language such as C, C++, FORTRAN. Ability to interpret and communicate the results of mathematical solutions.

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The Energy Information Administration is an equal opportunity employer with a commitment to workplace diversity.