



## Operations Research Analysts

The U.S. Energy Information Administration (EIA) within the Department of Energy 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 three 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++, or FORTRAN. Ability to interpret and communicate the results of mathematical solutions.

## Contact EIA's Recruitment Team

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The U.S. Energy Information Administration is an equal opportunity employer with a commitment to workforce diversity.