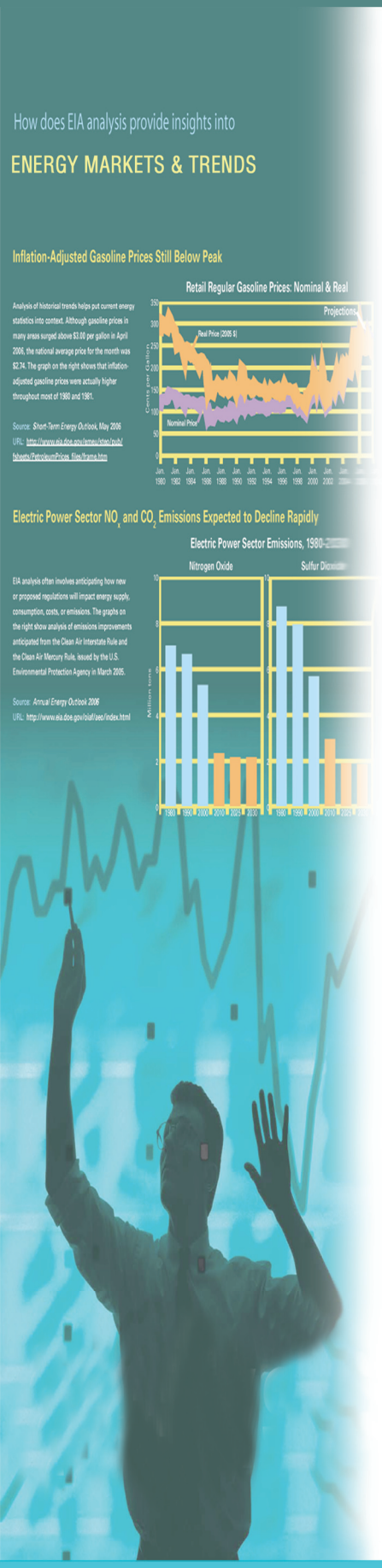
U.S. Department of Energy

Energy Information Administration

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



Mathematical Statisticians

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 Mathematical Statistician, whose work is associated with the design, implementation and evaluation of statistical methods.

Responsibilities:

Mathematical Statisticians perform or participate in one or more of the following important functions:

- Use statistical computing software packages, **research, select, and apply mathematical statistical techniques** and theories in the collection, processing, analysis, evaluation, and dissemination of energy pricing, production, supply, and distribution data
- **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
- Contribute to frames development, selection, and maintenance; survey design, confidentiality, editing, imputation, estimation, graphical validation; and statistical analysis, regression, forecasting, suppression and data quality
- **Keep up-to-date with advances in statistical 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 mathematics and statistics, of which 12 semester hours must be in mathematics and 6 semester hours must be in statistics.
- Knowledge of the application of standard quantitative techniques, such as mathematical statistics or statistical inference, statistical computing, regression analyses, survey sampling, probability, sample design, data collecting, data editing, and/or data imputing.

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