Risk and Decision Analyst/Scientist I/II  
Environmental Technology Directorate  
Health Effects & Risk Sciences Division  
Risk and Decision Sciences Group

Description:
Pacific Northwest National Laboratory is seeking highly-qualified entry-level candidates with expertise in decision and project risk analysis to participate in multidisciplinary teams of scientists and engineers in identifying, analyzing, and implementing solutions to problems in homeland security, defense, environment, and energy. The incumbent will have the ability to apply risk, decision, and system analysis skills to a diverse range of programs including threat analysis, emergency response, environmental cleanup, energy infrastructure planning, resource allocation, and policy analysis. These skills will be used to manage small tasks, and to support analysis and system integration in larger, more complex programs. Only recent (or soon to be) college graduates having demonstrated advanced study of statistics, probability theory, and Monte Carlo simulation need apply.

The successful candidate will have a broad range of skills and familiarity with associated state-of-the-art tools in several of the following areas:

- Project/investment risk analysis  
- Probabilistic/uncertainty/statistical modeling  
- Monte Carlo simulation  
- Economic analysis  
- Multiattribute utility analysis  
- System engineering and analysis  
- Decision analysis  
- Sensitivity analysis

The successful candidate should also have a working knowledge of standard desktop software, including Excel, Word, and Powerpoint.

The incumbent will generally work with the guidance of more senior scientists and engineers. A critical part of the position in addition to high-quality support for customers is ability to quickly and effectively develop and improve skills and abilities (technical, project management, and business development) that will lead to additional responsibilities and promotion. The incumbent will be required to prepare technical reports and presentations for customers and peers. Publication of research and participation in professional activities is encouraged.

Education:
Scientist I: MS preferred  
Scientist II: MS with 2 years experience; PhD preferred
Minimum Requirements:
Ability to obtain and maintain a DOE Q security clearance is required.
Scientist I: BS with advanced study of statistics, probability theory, and Monte Carlo simulation.
Scientist II: BS with advanced study of statistics, probability theory, Monte Carlo simulation, and 2-3 years experience; or MS with 0-2 years experience; or PhD with 0 years experience.

Additional desirable qualifications:

- Ability to work independently and with multi-disciplinary teams in either leadership or support roles
- Effective oral and written communication skills
- Demonstrated research and analysis in broad range of substantive technical areas
- Broad range of quantitative analysis skills
- Demonstrated interest in and ability to develop new technical skills

Equal Employment Opportunity
Pacific Northwest National Laboratory (PNNL) is an Affirmative Action / Equal Opportunity Employer and supports diversity in the workplace. Applicants will be considered for employment without regard to race, color, religion, sex, national origin, age, disability, veteran status, marital status, or sexual orientation.

If you have an interest in this position, please apply at [www.jobs.pnl.gov](http://www.jobs.pnl.gov), reference 112207.

About PNNL:
Pacific Northwest National Laboratory ([www.pnl.gov](http://www.pnl.gov)) is one of nine U.S. Department of Energy (DOE) multi-program national laboratories. Operated by Battelle ([www.battelle.org](http://www.battelle.org)), PNNL has approximately 4,200 employees and a business volume of $725 million. Also managed by the DOE Office of Science, PNNL performs work for many DOE offices, private industry, as well as other government agencies and industries. Since 1965, PNNL has received a total of 1,383 U.S. and foreign patents, 67 R&D 100 Awards, 62 Federal Laboratory Consortium (FLC) Awards, 5 E.O. Lawrence Awards, 4 Discover Magazine Awards and 1 Coblentz award. PNNL is located in Richland, WA ([www.visittri-cities.com](http://www.visittri-cities.com)).