

Operations Research Analysts

15-2031.00



Description: Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decisionmaking, policy formulation, or other managerial functions.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Advanced Analytics Associate, Analytical Strategist, Decision Analyst

Job Zone

Title: 5 - Extensive Preparation Needed

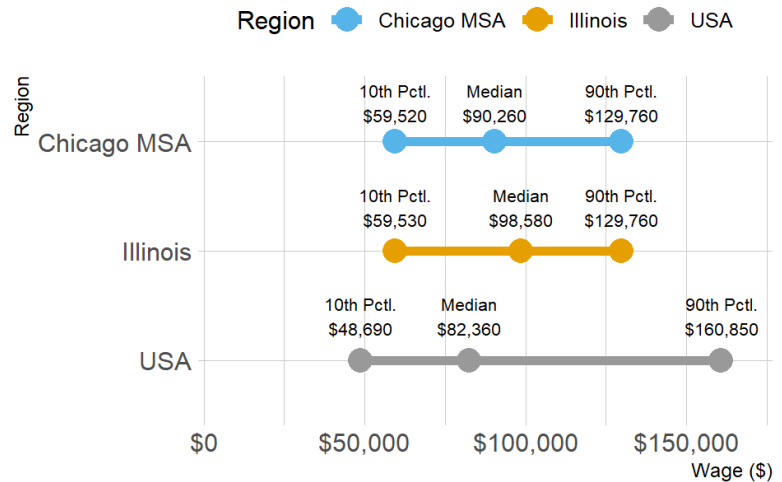
Education: Require graduate school.

Experience: Extensive skill, knowledge, and experience are needed for these occupations. Many require more than five years of experience.

Training: May need some on-the-job training, but most of these occupations assume that the person will already have the required skills, knowledge, work-related experience, and/or training.

Hot Technologies: Amazon Redshift, Apache Hadoop, Apache Hive, Apache Pig, Apple macOS, Bash, C++, Dassault Systemes CATIA, Database software, ESRI ArcGIS software

Region	Employment	Location Quotient	Median Wage
Chicago MSA	2,740	0.93	\$90,260
Illinois	3,970	1.01	\$98,580
USA	98,700	—	\$82,360



Top 5 Core Tasks According to Current Job Holders	Frequency	Importance (out of 100)
Formulate mathematical or simulation models of problems, relating constants and variables, restrictions, alternatives, conflicting objectives, and their numerical parameters.	More than monthly	91
Perform validation and testing of models to ensure adequacy and reformulate models as necessary.	More than monthly	89
Collaborate with senior managers and decision makers to identify and solve a variety of problems and to clarify management objectives.	More than monthly	88
Present the results of mathematical modeling and data analysis to management or other end users.	More than monthly	87
Collaborate with others in the organization to ensure successful implementation of chosen problem solutions.	More than monthly	85