

# Operations Research Analysts

SOC: 15-2031 • Career Profile Report

## ■ Key Facts

<b>\$91,290</b> Median Salary	<b>112,100</b> Employment	<b>+21.0%</b> Growth Rate
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## ■ Requirements & Salary Range

Education: Bachelor's degree

## ■ Automation Risk Assessment

**Low Risk** - 12.0% probability of being automated in the next 10-20 years.  
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■ Work-Life Balance

**7.8/10** - Good work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	7.4/10	Investigative	9.2/10
Artistic	4.6/10	Social	5.4/10
Enterprising	5.6/10	Conventional	6.8/10

## ■ Top Skills Required

Analytical skills, Communication skills, Critical-thinking skills, Interpersonal skills, Math skills, Problem-solving skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Operations Research Analysts typically perform the following tasks:

- Present the results of mathematical modeling and data analysis to management or other end users.
- Define data requirements, and gather and validate information, applying judgment and statistical tests.
- Perform validation and testing of models to ensure adequacy, and reformulate models, as necessary.
- Prepare management reports defining and evaluating problems and recommending solutions.
- Collaborate with others in the organization to ensure successful implementation of chosen problem solutions.
- Formulate mathematical or simulation models of problems, relating constants and variables, restrictions, alternatives, conflicting objectives, and their numerical parameters.
- Observe the current system in operation, and gather and analyze information about each of the component problems, using a variety of sources.
- Analyze information obtained from management to conceptualize and define operational problems.
- Study and analyze information about alternative courses of action to determine which plan will offer the best outcomes.
- Collaborate with senior managers and decision makers to identify and solve a variety of problems and to clarify management objectives.
- Specify manipulative or computational methods to be applied to models.
- Design, conduct, and evaluate experimental operational models in cases where models cannot be developed from existing data.
- Develop and apply time and cost networks to plan, control, and review large projects.
- Break systems into their components, assign numerical values to each component, and examine the mathematical relationships between them.
- Educate staff in the use of mathematical models.
- Develop business methods and procedures, including accounting systems, file systems, office systems, logistics systems, and production schedules.
- Review research literature.

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Source: <https://www.bls.gov/ooh/math/operations-research-analysts.htm>