

# CAREER PATHWAY: RESEARCH AND DEVELOPMENT ANALYST



**What do they do?** Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision making, policy formulation, or other managerial functions.

**People with these roles and responsibilities are also called:** Operations Research Analyst, Operations Research Manager, Scientist, Analytical Strategist, Business Analytics Director, Business Insight and Analytics Manager, Decision Analyst, Associate – Analytics and Research

## Some typical job duties include:

- Define data requirements and gather and validate information, applying judgment and statistical tests and/or actuarial research techniques.
- Collaborate with senior managers and decision makers to identify and solve a variety of problems and to clarify management objectives.
- Perform validation and testing of models to ensure adequacy and reformulate models as necessary.
- Prepare management reports defining and evaluating problems and recommending solutions.



## HOW MUCH DO THESE JOBS PAY IN OHIO?

**AVERAGE:**  
**\$80,580**

## MOST IMPORTANT OCCUPATIONAL SKILLS

**Basic Skills:** Mathematics, Critical Thinking, Reading Comprehension

**Social Skills:** Coordination, Instructing, Social Perceptiveness

**Problem Solving Skills:** Complex Problem Solving

**Technical Skills:** Operations Analysis, Programming

**System Skills:** Judgment and Decision Making, Systems Analysis, Systems Evaluation

**Resource Management Skills:** Time Management, Management of Personnel Resources, Management of Financial Resources

## CAREER PATHWAY AND EDUCATIONAL REQUIREMENTS

Entry-Level (\$30,000–\$60,000)

**Research and Development Analyst**

**REQUIRED FOR ENTRY:**  
Bachelor's Degree

Senior-Level (\$50,000–\$75,000)

**Senior Research and Development Analyst**

**REQUIRED FOR ADVANCEMENT:**  
Post-graduate Degree, Multiple Years Related Work Experience

Managerial (\$75,000+)

**Director, Research and Development**

**REQUIRED FOR ADVANCEMENT:**  
Post-graduate Degree, Many Years Related Work Experience

## CERTIFICATIONS THAT CAN HELP YOU ADVANCE:

**Microsoft SQL Server**  
*Microsoft*

**SAS Certified Statistical Business Analyst**  
*SAS Institute*