Computer and Information Research Scientists

SOC: 15-1221 • Career Profile Report

■ Key Facts

$140,910	40,300	+20.0%
Median Salary	Employment	Growth Rate

■ Requirements & Salary Range

Education: Master'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

8.8/10 - Excellent 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, Detail oriented, Interpersonal skills, Logical thinking, Math skills, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Computer and Information Research Scientists typically perform the following tasks: • Analyze problems to develop solutions involving computer hardware and software. • Apply theoretical expertise and innovation to create or apply new technology, such as adapting principles for applying computers to new uses. • Assign or schedule tasks to meet work priorities and goals. • Meet with managers, vendors, and others to solicit cooperation and resolve problems. • Design computers and the software that runs them. • Conduct logical analyses of business, scientific, engineering, and other technical problems, formulating mathematical models of problems for solution by computers. • Evaluate project plans and proposals to assess feasibility issues. • Participate in multidisciplinary projects in areas such as virtual reality, human-computer interaction, or robotics. • Consult with users, management, vendors, and technicians to determine computing needs and system requirements. • Develop and interpret organizational goals, policies, and procedures. • Develop performance standards, and evaluate work in light of established standards. • Maintain network hardware and software, direct network security measures, and monitor networks to ensure availability to system users. • Direct daily operations of departments, coordinating project activities with other departments. • Participate in staffing decisions and direct training of subordinates. • Approve, prepare, monitor, and adjust operational budgets.