

Conservation Scientists and Foresters

SOC: 19-1030 • Career Profile Report

■ Key Facts

\$69,060

Median Salary

42,400

Employment

+3.0%

Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 8.0% 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

7.5/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

| | | | |
|--------------|--------|---------------|--------|
| Realistic | 6.2/10 | Investigative | 9.4/10 |
| Artistic | 5.6/10 | Social | 6.4/10 |
| Enterprising | 4.8/10 | Conventional | 6.4/10 |

■ Top Skills Required

Analytical skills, Communication skills, Critical-thinking skills, Management skills, Physical stamina

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Conservation Scientists and Foresters typically perform the following tasks:

- Thin and space trees and control weeds and undergrowth, using manual tools and chemicals, or supervise workers performing these tasks.
- Train and lead forest and conservation workers in seasonal activities, such as planting tree seedlings, putting out forest fires, and maintaining recreational facilities.
- Provide information about, and enforce, regulations, such as those concerning environmental protection, resource utilization, fire safety, and accident prevention.
- Patrol park or forest areas to protect resources and prevent damage.
- Map forest tract data using digital mapping systems.
- Keep records of the amount and condition of logs taken to mills.
- Manage forest protection activities, including fire control, fire crew training, and coordination of fire detection and public education programs.
- Monitor activities of logging companies and contractors.
- Perform reforestation or forest renewal, including nursery and silviculture operations, site preparation, seeding and tree planting programs, cone collection, and tree improvement.
- Plan and supervise construction of access routes and forest roads.
- Select and mark trees for thinning or logging, drawing detailed plans that include access roads.
- Supervise forest nursery operations, timber harvesting, land use activities such as livestock grazing, and disease or insect control programs.
- Develop and maintain computer databases.
- Inspect trees and collect samples of plants, seeds, foliage, bark, and roots to locate insect and disease damage.
- Measure distances, clean sightlines, and record data to help survey crews.
- Issue fire permits, timber permits, and other forest use licenses.
- Survey, measure, and map access roads and forest areas such as burns, cut-over areas, experimental plots, and timber sales sections.
- Provide forestry education and general information, advice, and recommendations to woodlot owners, community organizations, and the general public.
- Provide technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys, or experimental forestry and forest engineering research.
- Conduct laboratory or field experiments with plants, animals, insects, diseases, and soils.