



Start at School | Years 9 - 12:

Agriculture / Primary Industries | Biology, Chemistry, Environmental Science | Mathematics and Data | Work experience with farms, agribusinesses, or consultants.

Agronomist

Pathway: Science, Data, and Decision-Making in Modern Agriculture

Agronomists are crop and soil specialists who help farmers make informed decisions to maximise productivity, profitability, and sustainability. They combine science, field observations, and data to advise on crops, soils, nutrition, weeds, pests, and diseases.

Agronomists work throughout the season—from planning and planting to harvest—providing trusted, evidence-based advice and supporting growers in achieving the best outcomes.

Entry-Level Agronomy Roles

What You'll Do

- Conduct crop inspections and field sampling
- Collect soil, plant, and yield data
- Assist with crop trials and demonstrations
- Support agronomists with reports and recommendations
- Learn seasonal decision-making and client engagement

Typical Job Titles

- Agronomy Assistant
- Graduate Agronomist
- Crop Scout
- Field Officer (Agronomy)
- Agricultural Extension Officer

Skills You'll Use

- Crop and soil science fundamentals
- Plant nutrition and fertiliser planning
- Weed, pest, and disease identification
- Soil sampling and interpretation
- Basic data analysis and reporting
- Understanding precision agriculture tools

Professional Agronomist Roles

What You'll Do

- Provide crop, soil, and nutrient advice to growers
- Develop seasonal crop management plans
- Recommend fertiliser, chemical, and management strategies
- Monitor crops through the season
- Analyse trial, paddock, and yield data
- Support sustainable and regenerative practices
- Stay updated with research, products, and regulations

Typical Job Titles

- Agronomist
- Crop Consultant
- Production Agronomist
- Independent Agronomist
- Research Agronomist



Typical Progression Pathway



Start with Certificate III–IV in Agriculture or related field → Progress to Diploma or University degrees (Agricultural Science, Agronomy) → Gain experience on farms, advisory roles, and research projects → Advance into leadership, consultancy, or specialised crop science roles

Career Outlook

- Strong demand across regional and rural Australia
- Critical role in food security and sustainability
- Mix of fieldwork, data analysis, and client engagement
- Opportunities to work locally, nationally, or internationally

Typical Employers

- **Farms & Growers:** Family-owned grain farms | Corporate broadacre cropping enterprises | Mixed-enterprise farms (crops + livestock). **Roles:** Farm Agronomist, Crop Consultant, Field Trial Agronomist
- **Agronomy & Advisory Services:** Independent agronomy consultancies | Grower groups and systems groups | Regional agribusiness advisory services and suppliers. **Roles:** Agronomy Advisor, Crop Management Specialist, AgTech/Agronomy Integration Specialist
- **Research & Education Organisations:** DPIRD research farms | Muresk Institute | Universities conducting cropping, soil, and agronomy research. **Roles:** Research Agronomist, Trial & Extension Officer, Crop Science Specialist

