



**Assistant Breeder
Aberdeen, SK**

Cargill Specialty Canola Oils (SCO) is an industry leader in the development, production and marketing of high oleic oil - a trans fat-free alternative for the food industry known for its superior nutrition, improved stability and excellent taste. SCO is involved in research and plant breeding, certified seed production, contracting, crushing and marketing of high performing canola hybrids. Cargill's Specialty Canola Oils Production Program offers farm businesses high-performing VICTORY and Invigor Health Hybrids and unique advantages, such as an attractive prime basis, risk management solutions and grower-selected delivery periods.

Reporting to the Developmental Breeder, the **Assistant Breeder** will be involved in developing breeding strategies and execute these breeding strategies to develop competitive Round-up-Ready hybrids with specialty oil traits in Canada. Primary responsibility is the development of improved elite canola inbred parental lines utilizing the latest in-breeding schemes and technologies to develop superior canola hybrids with a focus on agronomic, disease and oil quality traits. The incumbent will collaborate with commercial breeders in designing hybrid combinations to achieve high yield and desirable fatty acid profile.

The incumbent will actively participate as part of a cross-functional Team to evaluate and incorporate new germ plasm into commercial breeding and engage with the trait development team for new fatty acid traits upload into new germ plasm. The incumbent will also collaborate with germ plasm screening and marker development functions.

This position provides direct support for hybrid canola development by:

- Being the principle contact with the greenhouse team for Canadian breeding projects.
- Doing trial designing and executing of breeding strategies in nursery and field trials
- Leading field activities for new germ plasm development entering nursery and field trials in western Canada
- Developing and providing nursery entry lists to the technical seed setup team
- Being responsible for data collection, handling and organization from nursery locations

Principal Accountabilities:

30% - Administer parent line development program including implementation of breeding strategy in summer and winter nursery breeding projects, staffing, planting, harvesting, budget, QA, etc

20% - Directly manage Project Requests with input from Breeders as principle contact to Cargill Greenhouse operations

15% - Collaborate with Trait Development team to support characterization of heterotic pools and to support effective trait development and marker assisted breeding program

15% - Effectively use new disease resistance and markers for parent lined development in collaboration with the Trait Development team

10% - Work with commercial breeding team in Hybrid evaluation and FI heterosis evaluation

10% - Support seed inventory, seed storage and pedigrees for Developmental breeding; and prepare entry lists for nursery and test cross contra season planting

Qualifications

Required:

- M.Sc degree in Plant Breeding or Genetics with 5 years experience in plant breeding program
- B.Sc. degree in Plant Breeding or Genetics with 10 years experience in plant breeding program
- Experience in small plots and nursery research methods
- Ability to travel to Western Canada, USA, contra season (Chile, Australia).
- Knowledge in hybrid breeding and seed production
- Good knowledge of Microsoft Applications
- Strong communication and interpersonal skills across functional teams
- Ability to work outdoors with exposure to canola pollen

Preferred:

- PhD. in Plant Breeding or currently enrolled in a PhD. Plant Breeding program
- 2 years experience in hybrid breeding and parent line development in an applied plant breeding program including small plots and nursery research methods
- Knowledge of applied molecular breeding and genetics
- Experience in Contra season
- Comprehensive knowledge in hybrid development (any crops)
- Strong knowledge in applied molecular breeding tools and strategies
- Proven nursery experience in elite parent line / hybrid development (any crops)
- Demonstrated leadership and ability to work across multiple disciplines
- Solid Experience in stats
- Knowledge of germ plasm development in Brassica

Please apply online at:

<http://www.cargill.ca/en/careers/career-search/experienced-career-opportunities/search/index.jsp>