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Senior Research Associate

Requisition #10181BR
Mankato, Minnesota

Job Description:

Position will provide technical support to existing inbred and hybrid development programs contributing to 95-103 RM commercial hybrids.

Duties/Responsibilities:

Organize, analyze, and summarize phenotypic and genotypic information. Research, develop, and apply analytical and operational tools to create and evaluate hybrids utilizing inbred and hybrid information and market needs.

Work closely with scientists to develop and execute molecular breeding methods and strategies, including design and analysis of marker-trait association experiments, characterize germplasm, apply marker-assisted selection, etc. Manage phenotypic and genetic information for breeding programs including developing and maintaining databases.

Coordinate and collaborate with other SRA and scientists in the organization. Some field activities required.

Educational Qualifications:

M.S. in plant breeding, plant genetics, statistics, or other relevant majors in the agricultural sciences is required. Expertise in molecular breeding, statistical and quantitative genetics analysis, QTL analysis, and computing.

Competencies and Experience Desired:

Strong self-motivation and ability to initiate projects, make decisions, and effectively solve problems. Excellent personal interaction skills required for fostering teamwork, and developing strong working relationships.

Experience or expertise in field-based breeding and molecular breeding in maize or other crops, genetic mapping or genetic data management, and experimental design/statistics.

Strong computer science/information management, data management, and statistical analysis skills.

Knowledge of plant development, physiology, genetics, agronomy, crop production, and experimental field plot design.

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