

**BOARD OF REGENTS
STATE OF IOWA
REGENT MERIT SYSTEM**

<u>CLASS TITLE:</u>	Farm Equipment Mechanic	<u>CLASS CODE:</u>	5861
		<u>PAY GRADE:</u>	211

GENERAL CLASS DESCRIPTION:

Under general supervision, performs skilled and semi-skilled work in the maintenance, repair and overhaul of farm and farm-related machinery, equipment, and vehicles for field research operations.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES:

1. Constructs, modifies, repairs, and overhauls farm and farm-related machinery, equipment, and vehicles. Adjusts and calibrates all types of machinery.
2. Examines machines, motors, gasoline and diesel engines, and equipment for operational defects and dismantles defective units.
3. Reassembles, adjusts, and lubricates machines and equipment to insure efficient operation.
4. Communicates service/maintenance needs and helps troubleshoot equipment malfunctions. Determines work that can be done "in house" or if machinery must be sent to an external repair shop.

The tasks listed under the heading of Characteristic Duties and Responsibilities are examples of the variety and general nature of duties performed by employees in positions allocated in the class. The list is descriptive only and should be used for no other purpose. It is not intended that any position include every duty listed, nor is it intended that related duties cannot be required.

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5. Fabricates, assembles, and installs sheet metal products and equipment for field research operations using fabricating machines, such as shears, brakes, bending rolls, and punches.
6. Assembles, erects, and tests experimental farm machinery and equipment. Observes, collects and records experimental data.
7. Operates standard and specialized field machinery to perform cultural and experimental practices on field research plots, such as tillage, planting, and harvesting.
8. May act as a crew leader and provide functional supervision and training to personnel as assigned.

KNOWLEDGE, SKILLS & ABILITIES

1. Knowledge of the operation and mechanics of field machinery and equipment that incorporates the use of computerization, yield monitors, radar, global positioning, and other advanced farming technology.
2. Knowledge of gathering and recording precision yield map data from equipment.
3. Knowledge of the use of the hand and mechanical tools of trade, safe handling, and care of tools.
4. Knowledge of proper lifting and bending techniques. Ability to move and/or lift up to 50 pounds.
5. Knowledge of pesticide and fertilizer application, storage, and record keeping as prescribed by state statutes.
6. Skill in the repair of automotive or farm machinery mechanics and equipment.
7. Skill in driving large cumbersome farm equipment in the confines of research plots.
8. Ability to work in extreme weather conditions and to work in confined spaces, low light areas, at heights, and with toxic chemicals.

