**BOARD OF REGENTS**

**STATE OF IOWA**

**REGENT MERIT SYSTEM**

**Class Title: Farm Equipment Mechanic Class Code: 5861**

 **Pay Grade: 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.
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 new 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, AND 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.
9. Ability to properly handle farm machinery that dispenses chemicals.
10. Ability to use eye-hand dexterity in repair of machinery.
11. Ability to prioritize tasks and meet deadlines.
12. Ability to lead and supervise other employees.

**MINIMUM ELIGIBILITY REQUIREMENTS:**

1. Four years of experience in farm machinery repair and maintenance work, including technical training.
2. Successful completion of commercial certification tests for application of pesticides and be eligible for certification, as required.
3. May be required to obtain Commercial Drivers License (CDL).

H:(hr/classdes)5861 **REVISION EFFECTIVE: May 1, 2001**