



## Job Description Instructor of Mechatronics

### Faculty Duties

The Instructor of Mechatronics teaches Mechatronics campus classes in addition to teaching dual enrolled students at their local high school; using individual Mechatronics trainers. May teach as many as twelve students at a time. The Instructor of Mechatronics provides instruction in a full range of lower division technical courses including, but not limited to:

- Programmable logic controllers;
- Industrial automation networks and measurement;
- Control systems design, integration, and implementation;
- Human-Machine Interface (HMI);
- Project management and budgeting;
- Quality assurance;
- Facilities planning and operations;

### Additional Duties

1. Participates with faculty to develop and assess student learning outcomes, and uses the results to improve teaching and learning
2. Participates in Mechatronics program development and review
3. Assists in the advancement of the institutional mission and goals
4. Fulfilling the duties and responsibilities of an instructor, as required.

### Required Qualifications:

Master's degree in Mechatronics or a discipline in the relevant sub-field. Master's degree in another field, with 18 graduate credit hours within the discipline; **OR** a BA or BS with concentration or minor in field & 4 years of field work experience; **OR** an AA, AS, or AAS in teaching field & 8 years field work experience; **OR** A valid State of Michigan Teaching Credential; **AND** The equivalent education and/or experience (**requires an equivalency**).

Demonstrated sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds of high school and community college students.

### Preferred Qualifications:

1. Master's degree in Automated Systems, Electro-mechanical Technology, Electrical Engineering Technology, Robotics Technology, or related field
2. Experience in System level trouble shooting on an automated cell that includes PLCs, SMC Pneumatics, Hydraulics, Electrical Controls, and Motors; Previous teaching or training experience, preferably at the community college level.