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## **Green Jobs Training Opportunity**

### **State Energy Sector Partnership Grant**

Michigan has become the new center of the world's electric vehicle and advanced energy storage industries. The State Energy Sector Partnership Grant funds training for qualified dislocated workers or unemployed adults to teach them the skills required to secure employment in these industries.

The following educational partners are offering certificate programs funded by the SESP Grant. Ideal candidates should have an interest in working in these industries, experience in a related field (e.g. automotive, manufacturing), strong prerequisite academic skills and a commitment to finish the certificate program of their choosing. All courses must be completed by the end of 2012 to be covered by the grant.

Upon completion of one of these programs, participants will receive assistance finding a good job in one of these industries. The Michigan Academy of Green Mobility Alliance (MAGMA), made up of over a dozen battery and automotive manufacturers, has agreed to help qualified SESP participants navigate the hiring process and secure employment in a battery or automotive-related engineering or engineering technician position.

*For more information about these programs, and to be screened for eligibility, please contact:*

**David Shevrin at (248) 788-9511 or [davidshevrin@yahoo.com](mailto:davidshevrin@yahoo.com)**

*Eligible candidates will be scheduled for a mandatory orientation meeting.*

### **Wayne State University Graduate Certificate**

In conjunction with the SESP Grant, WSU is offering a Graduate Certificate in Alternative Energy Tech or Electric-Drive Vehicle Engineering with a concentration in Advanced Energy Storage (AES). This is a 3 course 12 credit program available to dislocated workers or unemployed adults with a Bachelor in Engineering, Engineering Tech or related science, and a 2.8 GPA.

Courses paid for by the SESP grant include (Fall 2011 courses in bold):

- **Advanced Energy Storage (required)**
- Fundamentals in Alternative Energy Technology
- Fundamentals of Battery Systems for Electric and Hybrid Vehicles
- Power Management and Applications of Energy Storage Systems
- **Fundamentals of Fuel-cell Power Systems for Transportation**
- Energy Economics and Policy
- **Energy and the Environment**

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### **Michigan Tech University Professional Development Distance Learning Program**

MTU is offering a Graduate Professional Development Program in Advanced Energy Storage. This is a 3 course 9 credit program requiring a Bachelor in Engineering or equivalent. Classes are taught on-line, including lectures and testing.

Courses paid for by the SESP Grant include (Fall 2011 courses in bold):

- **Principles of Energy Conversion (required)**
- Electric Energy Systems
- **Power Electronics**
- **Advanced Thermodynamics**
- Distribution Engineering
- **Vehicle Battery Cells and Systems**

### **Macomb Community College Advanced Energy Storage Certificate Program**

Macomb Community College is offering a Certificate in Advanced Energy Storage. This is an excellent program for either younger people looking to gain entry into the advanced battery or automotive industry, or for experienced degreed professionals looking to retool their skills to help qualify for the green automotive jobs of the future.

The program is designed as an intensive 2 course program. Courses range from 4 – 8 weeks each, so participants can either quickly start looking for a job, or apply for 6 credits to go towards a degree at MCC or possibly transfer to another institution.

Courses covered by the SESP Grant include:

- High Density Mobile Batteries - An introduction to rechargeable batteries for mobile electric applications at the battery cell, module, and pack level.
- High Density Mobile Battery Applications - Provides an introduction to Hybrid Electric Vehicles. Topics include hybrid systems, hybrid batteries, regenerative braking, safety procedures, hybrid maintenance and diagnostics, and connections to the smart grid.

Participants are required to have a minimum of a High School Degree, or GED, and at least a 10<sup>th</sup> Grade Math level (TABE Test required). Previous experience working in an automotive or manufacturing environment is recommended.