

**Oregon State University Advantage Accelerator**  
**Regional Accelerator and Innovation Network (RAIN), Corvallis**  
**2013-2015 Update**

**ENERGY**

*Beet Inc.* provides a disruptive solar cell technology based on proprietary polycrystalline, thin-film absorbers integrated into solar cells.

*Waste2Watergy's* primary goal is to work in partnership with Oregon State University (OSU) to commercialize microbial fuel cell technology developed at OSU, a revolutionary clean energy technology for concurrent highly efficient wastewater treatment and direct generation of renewable electricity from wastewater.

*Onboard Dynamics Inc.* is developing and commercializing natural gas compressor technology within the vehicle itself so that self-fueling can take place virtually anywhere with access to a natural gas pipeline.

**OTHER SCIENCE**

*Agility Robotics* creates legged robots that achieve walking and running gaits with revolutionary agility, robustness, and energy economy.

*KW Associates LLC* created the Arc Position Sensing technology, which is a patented, award winning technology that will revolutionize the way titanium and other alloys of high value are manufactured.

*NRGindependence* is a chemical company that provides a novel stabilization chemistry to extend the service life of Redox Flow Battery (RFB) electrodes by a factor of X2-3.

*TAPS* is a chemical startup that will hold an exclusive license for a patented stainless steel surface modification technology that provides advanced corrosion protection in high temperature applications.

*Valliscor* is a chemical manufacturing company that provides innovative solutions to access fluorinated building blocks and enantiomeric ally enriched scaffolds for the pharmaceutical, agricultural, polymer, and electronics industries.

**AGRICULTURE**

*Baker Seed Technologies* creates coating formulations and technologies that provides nutrients and protection for optimum seed germination, plant emergence, plant health, and crop production.

**RECREATION**

*Bosky* designs and produces evolutionary snow goggles and sunglasses made from natural and recycled materials.

**2015 GRADS**

- [Core Vitality Clinic](#), a medical facility that offers regenerative medical treatments.
- [DanioDiscovery](#), a contract research laboratory that uses embryonic zebrafish to give customers data regarding bioactivity of small molecules and mixtures.
- [e-MSion](#) has developed technology to better identify and quantify molecules from complex mixtures.
- [Northwest Research Laboratories](#) has developed an ultraviolet audit product that can confirm that a surface has been cleaned properly. Possible markets include hotels, restaurants, and hospitals.
- [Pure Living](#), an online news aggregator and blog designed to educate women on how to identify and reduce harmful effects of synthetic chemicals and other natural toxins.

# **Oregon Nanoscience and Microtechnologies Institute** **2012-2013 Update**

## **ENERGY**

*Element One (e1)* and the *Microproducts Breakthrough Institute* at OSU worked to develop a novel way to produce ultra-pure hydrogen gas. Completed 2013.

*CSD Nano, Inc.* and OSU faculty worked to demonstrate the commercial viability of a novel anti-reflective coating for glass covers on solar modules. Completed 2013.

*Applied Exergy* and OSU demonstrated the viability of a *Thermal Approach for Grid Energy Storage* using water as a storage medium that utilizes low-grade waste heat to enable efficient storage of energy in a manner that is cost effective and environmentally sound. Completed 2012.

## **OTHER SCIENCE**

*NW Medical Isotopes (NMMI)* and OSU collaborated to alleviate the shortage of medical grade isotopes in the United States. Completed 2013 and 2012.

*Amorphyx* and OSU furthered the process integration and testing capabilities of a technology that will enable a path to commercialization of metal-insulator-metal diode-based devices. Completed 2013.

*OnTo Technologies* and OSU worked on technologies to refurbish advanced batteries. Completed 2012.

*MTEK, CH2M HILL* and OSU worked to develop an innovative, scalable, cost-effective, and energy efficient method for removing salt from sea water. Completed 2013.

## **Oregon BEST**

### **ENERGY**

*Applied Exergy* (also listed above)

*Arcimoto* is developing low cost and long life battery packs for electric vehicles such as MicroEVs and e-bikes. <http://oregonbest.org/who-we-serve/investors/portfolio/#sthash.FA9GjQYX.dpuf>

*CSD Nano* (also listed above)

*M3 Wave's* new ocean power device captures wave energy and converts it to electricity.

*MTEK Energy Solutions* (also listed above)

*NRG Independence* (also listed above)

*Waste2Watergy* (also listed above)

### **AGRICULTURE AND MANUFACTURING**

*Local Food Marketplace's* mobile app enables locavores and chefs to buy local food via their mobile device. <http://oregonbest.org/who-we-serve/investors/portfolio/#sthash.FA9GjQYX.dpuf>

*EcNowTech* is a developer of innovative, plant-based packaging.

*SupraSensor's* trademark product, the "Field Nutrient Sensor™" (FNS™), allows for a snapshot of the current nitrate levels in a field.

*ShelterWorks* is a manufacturer of Faswall, a building block system made from recycled wood chips.