

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.