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Purdue University IN-MaC and Birck Nanotechnology Center
IOT Machine Sensor Collaboration

WEST LAFAYETTE, IN – The Purdue University Indiana Next Generation Manufacturing Competitiveness Center (IN-MaC) and the **Birck Nanotechnology Center** have compiled a package of open source IOT sensors/software, that allow manufacturers to receive data from their shop floor equipment. This information can be directly linked back to machine tool health, and predictive maintenance

Once installed companies are able to gather, analyze, and visualize data in real time from their machine tool. Among the information provided via sensors are vibration, temperature, current, air flow, liquid flow, and fluid level monitoring. We are then able to bring information directly from the machine using open source connectors. Custom applications can be developed as needed for specific equipment within a factory environment.

We are currently seeking manufacturers within the Wabash Heartland Innovation Network (WHIN) 10-county region to participate in testing our sensor configuration in their facilities. Manufacturers within the WHIN region who are able to meet all IT requirements by the Purdue group, will be able to participate at no cost to the companies. Companies should be willing to share these sensor data with

Photos Caption: Package of open source IOT sensors/software.

Purdue researchers. This will be used to develop algorithms that can hopefully help all participants. The data collected is only for research purposes and won't be shared with any outside partners.

For more information contact Jacob Coffing at **jdcoffin@purdue.edu**.

Photos Caption: Package of open source IOT sensors/software.

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About IN-MaC: IN-MaC provides programs and services to enhance the talents and capabilities of Indiana's present and future workforce by facilitating connections between educators and industry to catalyze the formation of near-term and long-term skills in a highly accessible manner across Indiana. IN-MaC supports a variety of STEM-type, skilled trades, degree (associates and undergraduate), and certificate programs.

IN-MaC leverages its resources, networks and partnerships with industry, local communities, educators and interested stakeholders to provide a variety of formal courses and informal activities that embolden pathways to meet present and future workforce talent needs.

About Discovery Park: Discovery Park is a place where Purdue researchers move beyond traditional boundaries, collaborating across disciplines and with policymakers and business leaders to create solutions for a better world. Grand challenges of global health, global conflict and security, and those that lie at the nexus of sustainable energy, world food supply, water and the environment are the focus of researchers in Discovery Park. The translation of discovery to impact is integrated into the fabric of Discovery Park through entrepreneurship programs and partnerships.

About WHIN: WHIN's mission is to develop its ten-county regional community as a very large scale, living laboratory for education and scientific research related to Internet of Things (IoT) technologies. The Wabash Heartland Innovation Network is an alliance of 10 counties in north-central Indiana, funded by the Lilly Endowment, devoted to working together to fuel prosperity by harnessing the power of internet-enabled sensors to develop our region into a global epicenter of digital agricultural and next-generation manufacturing.