









CENTER FOR INDUSTRIAL RESEARCH AND SERVICE (CIRAS)

The Center for Industrial Research and Service (CIRAS) is jointly part of the College of Engineering and Office of Economic Development and Industrial Relations at Iowa State University. CIRAS helps companies grow and prosper.

The CIRAS mission is to improve the quality of life in Iowa by enhancing the performance of industry through applied research, education, and technical assistance. CIRAS has been working with companies in communities across Iowa for more than 50 years, based on a vision that communities are better when they contain prosperous businesses. Because multiple resources are necessary to meet the needs of Iowa companies, CIRAS partners with Iowa's universities, community colleges, government agencies, and business associations throughout the state. Since 1963, CIRAS has provided Iowa manufacturers with the training, tools, and connections needed to accelerate innovation, identify new opportunities in domestic and export markets, and maximize potential. CIRAS services involve providing five main categories of assistance for Iowa businesses: Leadership, Growth, Productivity, Technology, and Workforce.

ECONOMIC IMPACT

MEP Center impacts are based on clients surveyed in FY2024



\$147.7 Million
Total Increased/Retained Sales



878

Total Increased/Retained Jobs



\$57.4 Million
New Client Investments



\$17.2 Million

Cost Savings

CONTACT US



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SUCCESS STORY

IOWA STATE UNIVERSITY STUDENTS DRIVE \$3.1 MILLION IN IMPROVEMENTS FOR NESTLÉ PURINA

ABOUT NESTLE PURINA PETCARE CO. Nestlé Purina is a manufacturer of dog and cat food and treats located in Clinton, lowa.

THE CHALLENGE. There was a problematic small packaging line. Bags filled with dog and cat food were tipping over, resulting in production stoppages and wasted products.

MEP CENTER'S ROLE. CIRAS, part of the MEP National Network™, facilitates capstone projects with students and lowa industry in areas like product design, machine design, process improvement and modeling, plant layout, new concept exploration, or data analytics. Students can access lowa State labs and expertise of faculty as well. By working through a capstone project with CIRAS additional technical resources are available to businesses as well as access to our innovative students at Iowa State University. Through this capstone project, the Industrial Manufacturing and Systems Engineering (IMSE) program, reviewed the problems and the students recommended changing the height of a platform and adding a support arm to prevent bags from tipping over and stopping the line. The team's recommendations reinforced the Nestle Purina mission to care for its team by suggesting a guard around the filler to improve safety. Additional recommendations included collecting data on centerline runs to determine optional operational settings, adjusting some conveyor joints where the bags were getting stuck, and angling a conveyor flat plate to help avoid bag "beaching".

"We implemented the students' ideas from the small bag line project, including guarding changes recommended for team safety. Their fresh perspective is making our operations run more efficiently."

-Justin Wilkinson, Factory Manager





RESULTS



\$,100,000 impact for capacity and reduced product loss



Change of height of a platform & adding a support arm



Guard around the filler to improve safety



