BEST MANUFACTURING PRACTICES
CENTER OF EXCELLENCE

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The Best Manufacturing Practices (BMP) Center of Excellence is one of several technical Centers of Excellence sponsored by the Manufacturing Technology Program in the U.S. Office of Naval Research. CSC is an integral component of the BMP Center, providing critical engineering and technical expertise.

A winner of the Innovation in American Government and Hammer Awards, the Center's goal is to improve the global competitiveness of the U.S. industrial community by identifying, validating and documenting best practices in manufacturing. By sharing best practices among industry, government and academia, the Center has become a national resource for helping organizations benchmark with the best, apply lessons learned from industry, and avoid costly and timeconsuming duplication of effort. The Center's experts foster sharing of information by regularly speaking at industry, government and academic conferences as well as colloquia and workshops.

For over a decade, CSC's role has been to provide expert engineering and analytical and technical support to the BMP Program Manager to disseminate best practices and technology throughout industry. CSC has made significant contributions to technical risk identification and mitigation, process improvements and emerging technologies.

The CSC technical staff consists of engineers, scientists and various other subject matter experts. Their extensive experience includes material, component, product, design and failure analyses of metallic, semi metallic and polymeric components. Techniques used to solve materials problems include thermal, stress and vibration analyses; optical microscopy; scanning electron microscopy/energy dispersive X-ray analysis (SEM/EDX); and Fourier Transform Infrared Spectroscopy (FTIR).

CSC's Centers of Excellence help clients explore state-of-the-art solutions with minimum up-front investment, leveraging CSC's top talent to maximize innovation and results. Each Center has a designated facility and staff who demonstrate and deliver solutions and evaluate products, methodologies and concepts.

CAPABILITIES

- Deployment of the Technical Risk Identification and Mitigation System (TRIMS) and Program Manager's Work Station (PMWS), both developed by CSC on behalf of the U.S. Navy for implementation within the Defense Acquisition community. These applications are a critical tool for early identification and mitigation of technical risks throughout the manufacturing process life cycle.
- Technical experts who benchmark best practices throughout the U.S. industrial base on behalf of the U.S. Navy and the Office of Naval Research.
- Identification of quantifiable metrics, analysis of data, and development of improvement plans in compliance with Six Sigma quality requirements.

BENEFITS

- Organizations can identify and apply industry best practices.
- Organizations become part of a vast, mutually supportive information exchange network.
- Organizations receive risk management, engineering support and failure analysis through integrated problem solving.

RESOURCES

The Center employs numerous certified professional engineers and staff members with expertise in Six Sigma and other best-practice and benchmarking methodologies. Many of the engineers are highly qualified and Professional Engineer certified. These professionals conduct best-practice surveys, develop and maintain PMWS and related tools, and provide onsite IT, technical and administrative support for the Center, its clients and BMP satellite centers.

The Center partners with the Defense Acquisition University, the U.S. Department of Commerce's Bureau of Industry and Security, and the University of Maryland's Maryland Technology Enterprise Institute (MTECH) and Clark School of Engineering. These partnerships strengthen the U.S. industrial base by further broadening the reach of BMP's core competencies throughout government, industry and academia.