

Bartlett Bay Consulting LLC

A Full Range of Contamination Control and Minienvironment Services

Background

Bartlett Bay Consulting offers comprehensive services designed to help develop contamination control strategies and solutions to fit your specific requirements. With over 13 years of industry experience and leadership, we understand the cascading effects airborne particles and molecular contaminants can have on cleanroom and minienvironments. Our highly specialized knowledge in these areas can provide the critical edge necessary for successful semiconductor processes.

Skills & Expertise

In-depth understanding of the elements of design, measurement, and analysis of airflow management are necessary for insuring state-of-the-art cleanroom contamination control systems. At Bartlett Bay Consulting, we have the capability to help you design, build and certify minienvironments based on sound contamination control principles.

Industry Leadership & Recognition

Our principal consultants are recognized industry experts with prestigious publication and literature credits, conference presentations and technical honors. Our knowledge and leadership in the contamination control industry is your assurance of the highest quality solutions and service available.

Services

Bartlett Bay Consulting provides a complete line of comprehensive contamination control services including:

Measurement/certification/testing:

- airflow, pressure
- airborne particles
- on-wafer particles (PWP and backside)
- ISO 1 certification of minienvironments

Design:

- Expert design services assure your minienvironment construction is based on sound contamination control principles.

Analysis:

- Use Computational Fluid Dynamics (CFD) and airflow visualization for complete understanding of the minienvironment parameters to insure non turbulent flow

Problem solving:

- Experience in the interpretation of measurements, trouble shooting and fixing design problems
- Knowledge of the ISO, International Sematech, ITRS and SIA Roadmaps, IEST And standards of the semiconductor industry.

Consulting & Education :

- Aid in developing your state-of-the-art particle and molecular contamination control strategy

Experience

Bartlett Bay Consulting has many years of experience in contamination control for cleanrooms and minienvironments.

Using the latest methods and technology, we have measured, analyzed, and certified cleanrooms and minienvironments for manufacturers world-wide. In addition, we have trained their personnel in understanding the meanings & uses of our findings.

We are skilled in the use of particle measurement equipment, pressure and velocity measurements as well as having expertise in utilizing Computational Fluid Dynamics (CFD: airflow simulation) methodologies.

and most importantly our firm has the ability to provide a complete analysis of your cleanroom and minienvironment systems, ensuring the most efficient, lowest cost-of-ownership semiconductor processing available.

Bartlett Bay Consulting...

We answer the tough questions.

Does your cleanroom or minienvironment meet state-of-the-art ISO clean standards?

Does your customer demand an independent contamination certification of your cleanroom system?

Do you know there are many standards and criteria involved in the design, building, analysis and measurements of cleanrooms and minienvironments, and that contamination control roadmaps forecast increasingly aggressive targets?

Are you aware of the requirements for minienvironments in both 200mm and 300mm fabs?

Do you know that just exposing wafers to clean air is insufficient, and that airflow management is key?

Furthermore, have you considered the return on investment for contamination control?

- Failure to meet contamination control standards can render worthless your costly investment in capital equipment
- A well-designed and reliable contamination control strategy is critical for modern fabs to enable it to meet its contamination control targets
- The difference between a poorly designed minienvironment and a well designed one is small in cost, but huge in risk.

If you have concerns about any of these questions,

Bartlett Bay Consulting has the answers.

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