

ADVANCING **INNOVATION** WHILE DRIVING DOWN COSTS



EAG
Laboratories

Elevate Your Innovations with Eurofins EAG Laboratories

In this industry, innovation and continuous improvement are crucial for success. The ability to quickly and consistently test, debug, diagnose failures, and implement corrective measures is pivotal, making the difference between a failed product launch and the establishment of a thriving global brand.

With over 20 years in microelectronics, our team has a high level of expertise. Our skilled staff efficiently identify root causes using established processes. With a comprehensive set of advanced tools, our facility prioritizes scalability and flexibility, enabling optimal choices for tools, platforms, and locations for each job. We adopt a multidisciplinary approach, consolidating all services under one roof to offer clients a single point of contact. Our "turn-key" offerings cover every project aspect, ensuring an efficient and seamless experience.

Operating in a secure environment, confidentiality and security are paramount at EAG laboratories. With a longstanding history of supporting secure programs, including ITAR compliance, we carefully manage critical technology and intellectual property for start-ups, industry leaders, and high-value applications within our secure environment. Our capabilities extend to in-depth analysis down to the component level.



Advanced Testing & Engineering Services at Eurofins EAG Laboratories

ATE Test & Engineering

EAG provides tailored semiconductor testing solutions with a skilled ATE test engineering team. Whether you require a focused project or a comprehensive turnkey solution, we are equipped to analyze data sheets and deliver a detailed test plan. We have a 24/7 engineering and production floor, an online reservation system, experienced engineers, technicians, and production support. Additionally, we maintain a substantial inventory of peripherals, temperature forcing units, probers, and handlers to meet your testing requirements efficiently.

Burn-in & Reliability Qualification

Reliability qualification assesses the suitability of a microelectronic product or IC for field applications. By undergoing this process, clients gain insights into fundamental wear-out mechanisms, identify design marginality coupled with parameter drift, and assess failure rates attributed to latent manufacturing defects. We employ stress-based reliability qualification and knowledge-based reliability qualification methodologies, adhering to industry standards. Our comprehensive suite of tests includes the High Temperature Operating Life Test (HTOL), thermal shock, preconditioning, temperature humidity bias, and Highly Accelerated Temperature and Humidity Stress Test (HAST).

PCB Design & Assembly

EAG has a wide range of reliability testing hardware, including ESD and ATE interconnect solutions for devices with multiple and large pin counts. Our expertise encompasses the creation of reliability burn-in boards compatible with criteria, MCC, Incal, AEHR, and other systems. We also excel in developing ATE interconnects, load boards, probe cards, and ESD verifier boards. Regular design reviews keep our customers informed about the latest advancements in board applications, ensuring our solutions stay relevant and progressive.

ESD & Latch-up Testing

Our engineering team leverages industry-leading knowledge and extensive real-world experience in the latest semiconductor technologies, circuit design, and device physics to enhance our customers' ESD and latch-up results. By choosing EAG, you engage with acknowledged experts in the industry. We are dedicated to offering cutting-edge methodologies, coupled with precise technical interpretation of test data and accurate assessments of results.



Advanced Testing & Engineering Services at Eurofins EAG Laboratories

Failure Analysis

Our goal is to accurately determine the cause of the failure. We have developed a methodology that has proven to be effective and efficient, yet allows us to customize the process to fit your needs. EAG offers industry leading support customized to meet your engineering challenges, the capability and capacity to support comprehensive root cause investigations, and specific techniques and analysis. With decades of practical experience in a broad range of both mature and advancing technologies, coupled with our expert interpretations and engineering assessments, we deliver critical analytical insight into investigations to partner in your success.

FIB Circuit Edit & Debug

Using Focused Ion Beam (FIB) circuit editing, EAG is able to quickly make precise nanoscale cuts and create nanowire jumpers on integrated circuits without the need for lengthy and costly re-fabrication. This technique is employed to implement and verify experimental design changes, investigate logic failures and other anomalies, and produce prototypes to inform decision-making. We offer end to end services, from sample preparation to circuit modifications on a range of package formats and in both front side and back side/flip chip technology.

Advanced Microscopy

EAG provides an extensive array of microscopy tools and services, catering to a wide spectrum of applications, from process development to failure analysis. Apart from delivering high-resolution imaging, our unique analytical capability positions us as an invaluable partner throughout your research, development, and failure analysis processes. Our microscopy techniques play a crucial role in characterizing various defects, encompassing metal migration, voids, particles, cracks, delaminations, as well as thickness and uniformity assessments.

Compliance & Standards

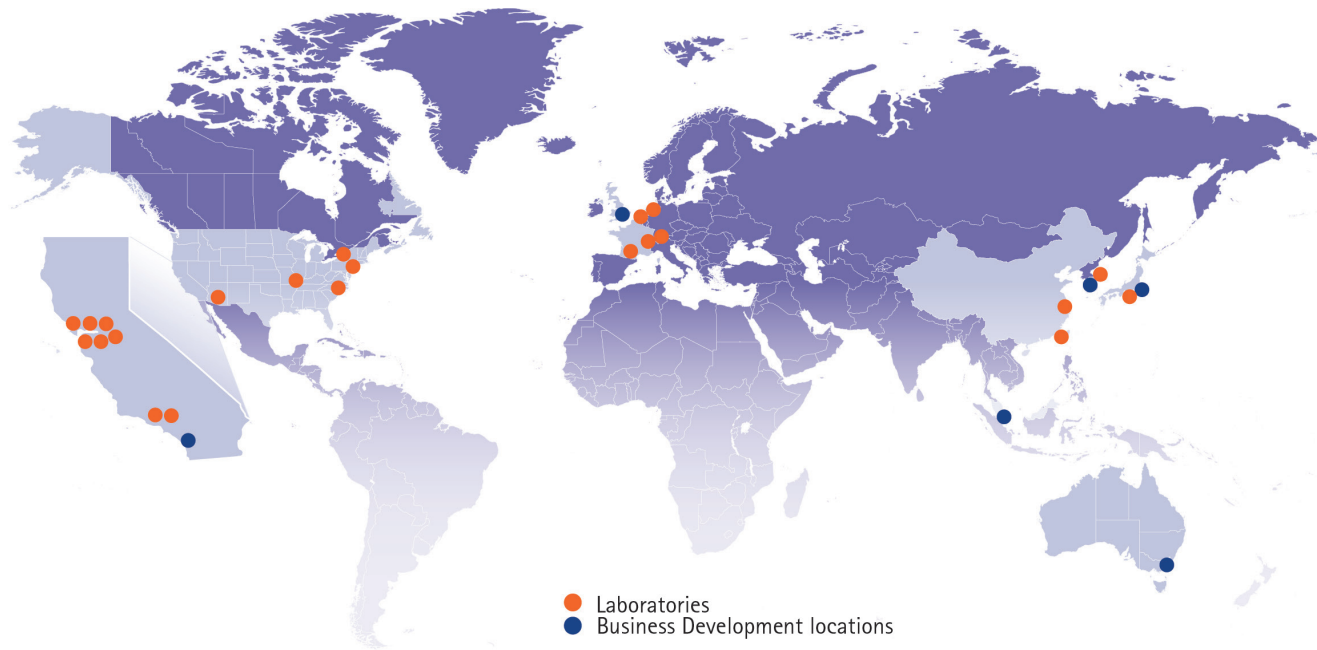
EAG is committed to delivering premier analytical testing services and continuously enhancing our quality management system. We are compliant with ITAR regulations, ISO 9001:2015, ISO 17025:2017, ISO 27001, and hold DLA (Defense Logistics Agency) certifications for MIL-STD-750 and MIL-STD-883 protocols.

Your Trusted Partner in the Microelectronics & Engineering Industry

Eurofins EAG Laboratories offers the largest and most diverse collection of specialized analytical tools globally. Our ability to conduct multiple microelectronic tests simultaneously, combined with our diverse expertise, allows us to thoroughly assess results and offer valuable insights to solutions. Whether you need a robust test plan, early prototype debugging, swift root cause determination, or efficient product production, Eurofins EAG Laboratories is ready to support you at every stage of the lifecycle.



Scan here to learn more about our services and capabilities.



About Eurofins EAG Laboratories

When it comes to understanding the physical structure, performance, chemical properties and composition of materials, no other scientific services company offers the breadth of experience, diversity of analytical techniques or technical ingenuity of Eurofins EAG Laboratories. We don't just perform testing, we drive commercial success—through thoughtfully designed investigations, technically superior analyses, and expert interpretation of data.

We deliver multi-disciplinary, problem-solving expertise to help our customers accelerate innovation, ensure quality and safety, and protect intellectual property. Whether you are seeking to reduce time-to-market, solve manufacturing problems or ensure regulatory compliance, turn to Eurofins EAG. We know how to bring the power of science to every phase of your product lifecycle.

- 20+ facilities located in the US, Europe, and Asia
- 2,500+ instruments
- 1,000+ highly-educated employees
- Serving more than 5,000 clients worldwide
- Revenue sourced from more than 50 countries

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Complete Lifecycle of Services



PRODUCT INNOVATION
& IMPROVEMENT



INVESTIGATION &
TROUBLESHOOTING



QUALITY
ASSURANCE



MANUFACTURING
SUPPORT



FAILURE
ANALYSIS



REGULATORY
COMPLIANCE



MANUFACTURING &
SUPPLY CHAIN SUPPORT



CONSULTING &
LITIGATION



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