

ACCELERATOR TECHNIQUES

RUTHERFORD BACKSCATTERING SPECTROMETRY (RBS)
 PARTICLE INDUCED X-RAY EMISSION (PIXE)
 NUCLEAR REACTION ANALYSIS (NRA)
 HYDROGEN FORWARD SCATTERING SPECTROMETRY (HFS)
 CHANNELING

AUGER

AUGER ELECTRON SPECTROSCOPY

FIB/SEM

FOCUSED ION BEAM, DUAL BEAM AND SINGLE BEAM

FTIR

FOURIER TRANSFORM INFRARED SPECTROSCOPY

GC-MS

GAS CHROMATOGRAPHY-MASS SPECTROMETRY

GDMS

GLOW DISCHARGE MASS SPECTROMETRY

ICP-OES

INDUCTIVELY COUPLED PLASMA-
OPTICAL EMISSION SPECTROMETRY

IGA

INSTRUMENTAL GAS ANALYSIS

LA-ICPMS AND ICPMS

LASER ABLATION INDUCTIVELY COUPLED
PLASMA MASS SPECTROMETRY

LEXES

LOW ENERGY X-RAY EMISSION SPECTROMETRY

RAMAN

RAMAN SPECTROSCOPY

SEM (with EDS)

SCANNING ELECTRON MICROSCOPY
ENERGY DISPERSIVE X-RAY SPECTROSCOPY

SIMS

SECONDARY ION MASS SPECTROMETRY

SPM/AFM

ATOMIC FORCE MICROSCOPY
SCANNING PROBE MICROSCOPY

TEM/STEM (with EDS/EELS)

TRANSMISSION ELECTRON MICROSCOPY
SCANNING TRANSMISSION ELECTRON MICROSCOPY
ENERGY DISPERSIVE X-RAY SPECTROSCOPY
ELECTRON ENERGY LOSS SPECTROSCOPY

TGA/DTA

THERMOGRAVIMETRIC ANALYSIS
DIFFERENTIAL THERMAL ANALYSIS

TOF-SIMS

TIME-OF-FLIGHT SECONDARY ION MASS SPECTROMETRY

TXRF

TOTAL REFLECTION X-RAY FLUORESCENCE

XPS/ESCA

X-RAY PHOTOELECTRON SPECTROSCOPY
ELECTRON SPECTROSCOPY FOR CHEMICAL ANALYSIS

XRD

X-RAY DIFFRACTION

XRF

X-RAY FLUORESCENCE

XRR

X-RAY REFLECTIVITY

RTP SERVICES

ATE TESTING
RELIABILITY TESTING
ESD TESTING
CIRCUIT EDIT
FAILURE ANALYSIS
EQUIPMENT CALIBRATION
THERMOCOUPLE MANUFACTURE
PCB DESIGN

Who We Are

Evans Analytical Group (EAG) is the world's largest independent commercial materials characterization and surface analysis laboratory network. We are the leading provider of microanalytical and surface characterization services to high technology industries. Founded in 1978 in California, EAG has grown into a global network of labs and sales offices, offering services in North America, Asia and Europe.

With over 30 years of experience, we provide our customers with essential information that helps develop new materials and new processes; improve product performance; solve problems and integrate new materials into products and manufacturing processes.

Further services we provide to our semiconductor customers are our Release to Production (RTP) services. Our RTP team provides engineering support to semiconductor companies during their development cycle. These services include hardware testing, software development, reliability qualification, ESD testing, PCB design, circuit edit/debug, failure analysis, thermocouple manufacture and equipment calibration services.

What We Do

Our primary analytical techniques involve the use of ions, electrons, or photons (e.g. X-rays) to probe materials, in order to provide information on composition, structure and chemistry. These analyses are performed to provide information regarding the chemical composition; the presence (or absence) of contaminants or dopants; and to provide information on the physical structure or appearance of the sample. This detailed information is highly useful to our customers.

The services we provide include dopant and impurity depth profiling, thin film coating analysis, bulk composition and impurity analysis, materials characterization, failure analysis, characterization of particles, defects and residues, crystal structure determination, roughness measurement and the investigation of thermal properties.

When it comes to materials characterization, we don't make or sell instruments! Our scientists use our instruments to the limits of their performance to help you solve your problems!

Our People

Our analytical staff is highly-qualified and extremely knowledgeable. Over half of our scientists have higher degrees from universities across the globe. Our diversity of disciplines (e.g. chemistry, physics, materials science, electrical and electronic engineering) means that we successfully address questions from multiple different industries.

*EAG is here for you and your materials characterization needs.
Call on our scientists and our resources to help you meet your goals.*

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San Diego
Santa Clara
Sunnyvale
Massachusetts
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