

# Nano Machining Analysis

High Resolution SIMS + FIB

SIMS Analysis with Cs+  
EDX-EDS Alternative

Nanofabrication Process  
Control with SIMS

Sectioning  
Slice and View  
Life Science  
Semiconductor



Cs+ ion beam with  
nanometer resolution

10+ nA beam current

Full-featured FIB system

Highest resolution SIMS

Parallel readout of all  
masses



Obtain EDX-like spectra...  
without lamella prep!

Gather SIMS data 100X faster

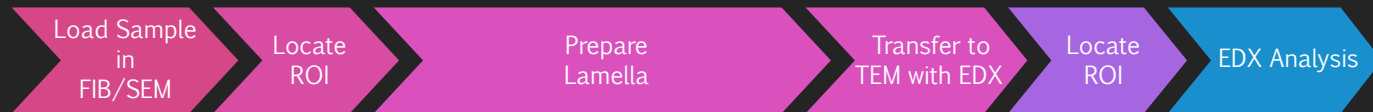
Machine with higher precision

Endpoint using mass spectra

Nanofabrication process  
control using SIMS

## More Analysis : Less Time

### Existing Workflow : Thin Sample EDX



Only one shot : analysis limited to a single depth

### Optimized Workflow - SIMS:ZERO



# SIMS:ZERO

# Introducing SIMS:ZERO

The Integrated  
Solution for

Nanomachining +  
High Resolution Elemental  
Analysis

Imagine obtaining EDX-like spectra without time-consuming trenching and lift-out. Imagine collecting SIMS data 100X faster and with ultimate spatial resolution. Imagine machining resolution better than any other FIB on the market.

Now imagine all of it in a single platform.

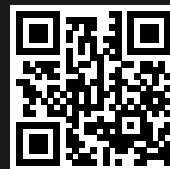
SIMS:ZERO  
AVAILABLE 2019

**ZEROK**  
NANOTECH

LUXEMBOURG  
INSTITUTE OF SCIENCE  
AND TECHNOLOGY | LIST 

## About Us

zeroK NanoTech and the Luxembourg Institute of Standards and Technology are aiming to join together to deliver an entirely new class of analytic instrument. We are leveraging new Low Temperature Ion Source technology to achieve heretofore unprecedented levels of performance.



# SIMS:ZERO

The Ultimate in Elemental Analysis

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