

# Laser-Induced Breakdown Spectroscopy (LIBS) Trends: Market Research Report

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## **Abstracts**

LIBS (laser-induced breakdown spectroscopy), also referred to as LSS (laser spark spectrometry) or LIPS (laser-induced plasma spectrometry), is an advanced analytical technology based on atomic emission spectroscopy for simultaneous multi-elemental analysis, which involves material detection as well as characterization in real time.

The report analyzes and presents an overview of LIBS (laser-induced breakdown spectroscopy) market worldwide. The report provides a review of market trends, working, benefits, Shortcomings, application in selected end-use segments for LIBS. The report highlights on various strategic industry activities of major companies witnessed by the industry over the last few years. In addition, 23 companies operating in the LIBS (laser-induced breakdown spectroscopy) arena worldwide including Applied Photonics Ltd., B&W Tek Inc., Firestar Technologies, TSI Inc., and others are profiled.



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LIBS - Applications in Select End-Use Segments

Environmental and Geochemical Analysis

**Artworks** 

Quantitative Determination of Platinum

**Inorganic Compounds** 

Analysis of Lead Content in Kohl

**Detection of Helium in Gas Mixtures** 

**Quantitative Analysis of Nutrients** 

**Environmental Sciences** 

Pharmaceuticals

**Polymer Detection** 

**Bio-Ceramics** 

Oxygen Concentration Determination

Vegetal Tissue Evaluation

Heavy Metal Ion Detection

Trace Element Measurement

Soil Analysis

**Detection of Chloride Content** 

Oceanography

Others

#### 2. RECENT INDUSTRY ACTIVITY

SonicSampDrill Develops Ore Selector System

TSI Launches ChemReveal LIBS Desktop Analyzer

B&W Tek Expands Exemplar Smart Spectrometer Platform

B&W Tek Rolls Out Exemplar Spectrometer

TSI Takes Over LIBS Technology and Product Portfolio of Photon Machines

#### 3. MARKET PARTICIPANTS



Applied Photonics Ltd. (UK)

Applied Spectra, Inc. (USA)

Avantes BV (The Netherlands)

B&W Tek, Inc. (USA)

Energy Research Company (ERCO) (USA)

Firestar Technologies (USA)

IVEA Solution (France)

Laser Consult Kft. (Hungary)

LTB Lasertechnik Berlin GmbH (Germany)

Ocean Optics, Inc. (USA)

P&P Optica (Canada)

Pharma Laser (Canada)

Photon Etc, Inc. (Canada)

Photon Machines, Inc. (USA)

Photonic Solutions Ltd. (UK)

Princeton Instruments (USA)

Progression, Inc. (USA)

Rap. ID Particle Systems GmbH (Germany)

SECOPTA GmbH (Germany)

SENSE Electronic Technology Co., Ltd. (China)

Spectrecology LLC (USA)

StellarNet, Inc. (USA)

TSI, Inc. (USA)

## 4. APPENDIX



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