

HUMAN HEALTH

ENVIRONMENTAL HEALTH



FOR PEOPLE.  
FOR THE ENVIRONMENT.  
FOR THE SHARED GOAL  
OF A HEALTHIER  
FUTURE.



[Company Overview](#)

  
**PerkinElmer**<sup>®</sup>  
*For the Better*

# FOCUSING ON BETTER

At PerkinElmer, we're taking action to improve the health and safety of people and their environment. Engaged in a proactive fight against illness, contamination and threats to our well-being, PerkinElmer conceives and delivers scientific solutions, components and services to meet our society's ever-changing needs. We're committed to transforming risk into safety, mystery into knowledge and ideas into action for a healthier today and a better tomorrow.



INNOVATION  
FOR IMPROVING  
QUALITY OF LIFE.





PerkinElmer is a global scientific leader providing an extensive range of technology solutions and services to address the most critical issues facing humanity. From critical research and prenatal screening to environmental testing and industrial monitoring, we're actively engaged in improving health and enhancing quality of life all around the world.

PerkinElmer's proud history dates back to the 1930s. Our legacy of scientific advancement, operational excellence and continual expansion, from Boston to Beijing, is the foundation of our mission to improve human and environmental health.

Collaborating with customers to identify risks, discover and monitor the things that matter most—from safer drinking water to cleaner air, faster research to healthier babies—is imperative to executing our mission.

Encouraging ingenuity and exploration; integrity and generosity; and, teamwork and employee development is essential to living our mission, every day.

## Our Company At A Glance

- Approximately 8,500 employees worldwide
- Operations in more than 150 countries
- Over 2,900 patents
- Solutions and services for:
  - Diagnostics
  - Life science research
  - Environmental
  - Safety & Security
  - Industrial

## Solutions in Action

### Ocean Drugs

Researchers at UC Santa Cruz scour the ocean floor to uncover natural compounds to combat major disease states. Our JANUS<sup>®</sup> Automated Workstation is an integral part of their research and discovery process.

### Ancient Meets Present

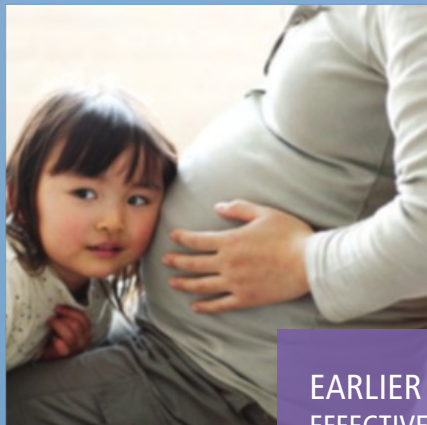
For years, experts in China have used PerkinElmer's infrared spectrometers to map all the effective natural compounds found in traditional Chinese medicine, using modern technology to perfect an ancient craft.

### Food on Your Table

Our CCD technology is used by manufacturers of grain sorting equipment. Harvested foods are sorted more accurately and efficiently, ensuring higher quality food products are delivered in shorter times, and at lower costs.

# HEALTHIER PEOPLE

We know that the vision of a healthy tomorrow begins with what we do today. PerkinElmer is taking action to help people lead longer, healthier lives through advanced diagnostics and more effective therapeutics. Our products and services are developed based on our customers' needs and proven state-of-the-art technologies, and have a track record of success around the globe.



EARLIER INSIGHTS.  
EFFECTIVE THERAPIES.  
BETTER OUTCOMES.



## Diagnostics

### Family Health

We're committed to protecting the health of expecting mothers, babies and families. PerkinElmer is the world's leading supplier of newborn screening systems, a pioneer in methods for risk assessment during pregnancy and a leader in umbilical cord blood banking. We offer instruments, reagents, software and services to test and screen for disorders and diseases such as Down syndrome, fertility and diabetes. Worldwide, we've screened over 270 million babies to date for disorders, such as congenital hypothyroidism and phenylketonuria (PKU).

Metabolic and other inherited disorders can be harmful, even deadly, when undetected. By giving doctors and patients the opportunity for earlier insights and improved diagnostic accuracy, we help identify diseases, prevent the progression of them and offer a greater array of treatment options.



### Applications:

Hemoglobinopathies • Clinical screening • Cord Blood Banking • Cytogenetics • Diabetes • Newborn screening for metabolic disorders • Oncology • Pre-eclampsia and preterm birth • Prenatal risk assessment for trisomy disorders • Reproductive hormones and infertility • Thyroid Diseases

### Technologies:

Time-resolved fluorescence (TRF) • Array CGH • Automatic Immunoassay • BACs-on-Beads • Mass spectroscopy

### Medical Imaging

Digital imaging provides superior image quality and optimized workflow efficiency over traditional film-based cartridges in medical diagnostic and cancer treatment. PerkinElmer is the leading global supplier of digital x-ray flat panel detectors used in real-time, state-of-the-art systems for radiotherapy and radiosurgery oncology treatment and cardiovascular and neurovascular imaging. These systems help provide a more accurate diagnosis and allow physicians a less invasive alternative to traditional treatments.



### Applications:

3D cone-beam CT • Angiography, Cardiovascular and Neurovascular imaging • Biofluorescence • Bone densitometry • Brachytherapy • Dental • Diagnostic endoscopy • Digital imaging • Phototherapy • Proton/particle therapy • Radiosurgery • Radiotherapy • Surgical endoscopy • Surgical microscopy • Therapy simulation • Veterinary

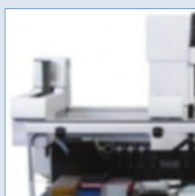
### Technologies:

aSi digital X-Ray detectors

## Life Science Research & Discovery

As drug discovery research becomes more challenging as costs and complexity rise, the ability to anticipate and provide solutions to researcher requirements in key technology and consumables areas becomes increasingly critical.

PerkinElmer offers complete, integrated solutions across a wide range of applications and detection methods to help customers accelerate their research and discoveries. We have the world's largest GPCR and kinase product portfolio—key tools in developing new and better treatments for heart disease, cancer, diabetes, Alzheimer's and much more. Proven applications expertise, technology leadership, and quality products and software are helping laboratories achieve high performance, better results and greater insights.



### Applications:

Biomarkers • Cellular Research • ELISA Alternative Technologies • G-protein coupled receptors • Kinases • Laboratory automation • Microscopy • Scintillation Counting

### Technologies:

2D, 3D and 4D imaging and analysis • Absorbance/Chromogenic detection • Alpha • Fluorescence Luminescence • Phosphor Imaging • Time-resolved fluorescence

## Reagents

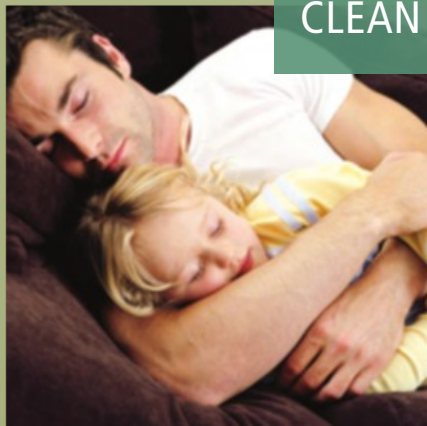
Whether you are looking for cell-based or biochemical assays, radiochemicals or blotting reagents, PerkinElmer has a range of reagents, assays platforms and services that will advance your research and discovery.

# HEALTHIER PLANET

At PerkinElmer, we're committed to protecting the quality of our environment and creating safer surroundings and products. Every day we develop and implement solutions and services that are used in critical applications. Our technology and expertise—from analytical instrumentation to motion detection sensors to environmental monitoring support—are employed to ensure clean air and water; safe products and food; and, efficient, renewable energy—the essential components of a healthier, safer and brighter today and tomorrow.



SAFER PRODUCTS.  
SECURE SURROUNDINGS.  
CLEAN ENERGY.



## Environmental

### Environmental Testing

The growth of the global population combined with industrialization and urbanization puts continued stress on our environment. PerkinElmer environmental testing solutions help to keep us safe at work and home every day. Our solutions are used for the determination of lead and arsenic in our drinking water supplies as well as for the monitoring of ozone precursors to indicate the quality of the air we breathe. We partner with regulatory groups, collaborate with organizations such as the Water Environment Federation and provide specialized application solutions. More than 20 million homes and businesses are safeguarded by our motion detection technology and our sensors used in smoke and gas detectors.

### Renewable Energy Development & Energy Conservation

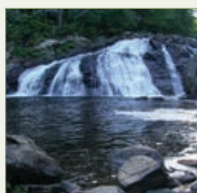
The world's energy needs are changing at a rapid pace. PerkinElmer contributes to the development of new and renewable energy sources such as solar panels and biofuels by providing instrumentation and customized methodologies. Equally important, are our LEDs and sensors, which are used in a variety of applications including light switches and home appliances and actively contribute to energy savings and reduced CO<sub>2</sub> emissions.

## Industrial Inspection & Safety

In order to avoid damaged equipment, extend the use of current equipment, and ensure product safety, analytical techniques are critical to test product quality and integrity. PerkinElmer solutions are used in a wide range of industrial applications for proactive monitoring, issue prevention and quality and process control. We partner with some of the world's most respected brands to keep engines running efficiently, costs down and facilities in compliance.

### Consumables

PerkinElmer offers a variety of consumables and accessories. We understand how essential these supplies are to laboratory operations and are committed to timely delivery, superior quality and dependable performance.



#### Applications:

Air, water, soil and hazardous waste analysis  
• Biomonitoring • Industrial hygiene • Laser range finding • Motion and presence detection  
• Smoke detection • Safety curtains • X-ray scanning of luggage, cargo and food



#### Technologies:

Atomic spectroscopy • Chromatography • Digital pyrodetectors • Elemental analysis • LIMS & data handling • Mass spectrometry • Photon detection • Scintillation counting • Ultra-violet visible spectroscopy (UV/Vis and UV/Vis/NIR)



#### Applications:

Analytical Instrumentation Lighting • Architectural Lighting • Biodiesel development & testing • Bioethanol development & testing • Industrial Lighting • Medical and Dental Lighting • Safety and Security Lighting • Solar energy development and testing



#### Technologies:

Atomic spectroscopy • Chromatography • Elemental analysis • Infrared Spectroscopy • LEDs • LIMS & data handling • Mass Spectrometry • Photon detection technologies • Pyroelectric infrared detectors • Scintillation Counting • Thermal analysis • Ultra-violet visible spectroscopy (UV/Vis and UV/Vis/NIR)



#### Applications:

3D cone-beam CT • Archaeology • Castling inspection • Crystallography • Film replacement • Geology • In-line manufacturing inspection • Lubricants & oils • PCB inspection • Petrochemical • Petroleum refining • Pipeline inspection • Security • Semiconductor • X-ray metrology



#### Technologies:

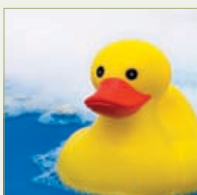
aSi digital X-Ray detectors • Atomic Absorption (AA) • Gas Chromatography (GC) • ICP-Mass spectrometry • Inductively Coupled Plasma (ICP-OES and ICP-AES) • Infrared (FTIR) Spectroscopy • LIMS & Data Handling • Liquid Chromatography (HPLC and UHPLC) • Thermal analysis • Ultra-violet visible spectroscopy (UV/Vis and UV/Vis/NIR)

#### Applications:

Lead and other hazardous metals • Solvent residues in plastic goods • Plasticizers in vinyl products • Dyes • Glycols

#### Technologies:

Atomic Absorption (AA) / Inductively Coupled Plasma (ICP-OES and ICP-AES) • Gas chromatography / Mass spectrometry (GC/MS) • Liquid Chromatography (HPLC and UHPLC)



#### Applications:

Adulteration • Agriculture genetic screening  
• Authenticity • Flavors and fragrances  
• Labeling compliance • Nutraceuticals • Pesticide residue

#### Pharmaceutical:

Quality and contaminants

#### Technologies:

Atomic Absorption (AA) • Infrared (FTIR) • Gas Chromatography (GC) & GC/MS • ICP-MS  
• Lab automation • Liquid Chromatography (HPLC and UHPLC) • Raman spectroscopy • Thermal & elemental analysis • Ultraviolet-visible Spectroscopy (UV/Vis)



## Safety & Security

### Consumer Goods Safety

Globalization of the supply chain has caused a significant increase in the number of products imported and exported globally. PerkinElmer provides a variety of solutions that detect the presence of potentially dangerous materials, including lead and phthalates, in toys and other consumer products in order to ensure their safety for use or consumption. Our solutions are also used to identify and prevent counterfeiting of medicine and other goods. PerkinElmer methods and analyses are transferable throughout the supply chain, so our customers keep pace with industry and international regulations and certifications.

### Food Quality & Safety

While the production and transport of food has become more complex with consumers eating a wide variety of food from around the world, so has protecting the safety and quality of our food. PerkinElmer's advanced screening and detection technologies and applications expertise help to ensure that the food and beverage we consume are safe and free from harmful contaminants from the source of ingredients to the final product. In addition to safety testing, we also help test for many aspects of food quality, including freshness, taste, nutritional content and physical properties such as texture and crispness.

### Global Environmental Initiative

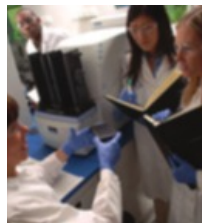
As part of our EcoAnalytix™ initiative, PerkinElmer is working with its customers, partners and thought leaders to create a healthy and safe environment, including improving and protecting air and the global water supply. PerkinElmer is the market leader in remote air monitoring of complex compounds, with its Ozone Precursor Analyzer enabling ongoing monitoring of ground-level ozone precursor compounds to ensure the safety of ambient air and air in the vicinity of industrial plants. PerkinElmer's water quality solutions include specific analyzers and methodologies to detect harmful substances in the world's water supply, including trace metal, organic, pesticide, chemical and radioactive contaminants.

# SERVICE IN ACTION

PerkinElmer's foundation in science, expertise in technology and commitment to excellence are a great combination for providing optimal service and support around the world. From multi-vendor laboratory services, custom labeling and assay development to clinical lab testing and unparalleled customer care, we have the people, tools and resources to deliver personalized service globally.

## Clinical Services

Through our NTD Laboratories, PerkinElmer Genetics and ViaCord cord blood services, PerkinElmer provides a wide array of clinical lab testing services to assess the health risks of expectant mothers and newborns, and to preserve newborn cord blood stem cells to offer potentially lifesaving treatment options in the future.



## OnPoint<sup>SM</sup> Services

Committed to accelerating and simplifying drug discovery and life science research, OnPoint delivers a full array of assay development, reagent-labeling and lab automation integration services.

## OneSource<sup>®</sup> Laboratory Services

Regardless of laboratory location or instrumentation, OneSource Laboratory Services delivers the experience and expertise to keep your labs running at peak efficiency. From the most responsive multi-vendor service capabilities to complete relocation and asset management services, OneSource is uniquely positioned to help labs control costs, optimize productivity and ensure compliance.





Together, we're actively improving the health and well-being of people and the environment for a healthier today and even better tomorrow.

Find out more at: [www.perkinelmer.com](http://www.perkinelmer.com)

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