

Engage. Explore. Empower.

Connecting Visionaries in Radiation Safety, Science and Industry



Annual Users' Conference

July 29 - August 2 | Omni Dallas Hotel, Dallas, TX



Mirion Services: Your Product-to-Solution Partner!

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Mirion Connect | Annual Users' Conference 2024

Dallas, Texas



What is a "Solution"

You have needs.

- Mirion has products
- Mirion has services

For a solution, you need both.



Mirion Services: Product-to-Solution Partner

Solutions for >Getting Started



Solutions for

➤ Keeping Things Running



 Improving and Evolving





Solutions for Getting Started

HOW TO GET STARTED

- Finding the right equipment
- Getting your team prepared
- Planning your installation
- Going from installation to operation

SERVICES PRODUCT ZOOMS

- Installation
- Start Up Assistance
- Training (lots of options!)
- IQ/OQ Services
- Consulting



You have a new system, but not enough time or knowledge to put it fully into operation?

Start-Up Assistance



Our Start-up assistance includes:

- On-Site or Remote services
- Device Setup
- Calibration (Constant Efficiency)
- QA Set-Up
- Data Review
- Unknown Sample procedures

Our Start-up assistance service will leave you system set-up and fully operational when we leave.





Not sure how a new product or software can streamline workflows and improve efficiency?

Or need to become your site's Subject Matter Expert?

Mirion Training Courses

Solution: Mirion has more than 50 lecture, handson sessions, and interactive learning experiences.

Training classes are taught at:

- Mirion Facilities
- Your Facility
- Virtually
- E-Learning

Our Focused and Progressive Training will guide you from Fundamentals to Subject Matter Expert, ensuring your Success.



TRAX TO Apex-Gamma Spectroscopy Software

- GP101 Principles of Radiation Detection
- GP101 Fundamentals of Gamma Spectroscopy
- GP101 Principles of Radiation Detection
- Fundamentals
 - SU-635 Apex-Gamma Operations
 - Technician
 - SU-472 Genie 2000 Algorithms
 - Specialist
 - SU-601 Interpretation of Gamma Spectroscopy Results
 - SU-636 Apex-Gamma Advanced Topics
 - Subject Matter Expert
- MIRION 24

 Annual Users' Conference

- We have 6 Training Trax Topics
 - Genie, Apex A/B, Apex Alpha, iCAM and ISOCS
- The Trax consist of 3-4 training levels
 - Fundamentals, Technician, Specialist and Subject Matter Expert
- Placement Exams Offered
- SME Certificate awarded after competition of Trax

Solutions for Keeping Things Running

What are the problems you might face?

- Keeping up with calibration schedules
- Unexpected failures
- Spare/replacement parts, quick!
- IT Tells me I need to change computers...

SERVICES WE OFFER

- Preventative Maintenance Services
- In-house Calibration Services
- Whole-Body Calibrations
- Extended Warranties
- Consulting Services (Lifecycle Management)





Keeping your whole-body counter up and running:

Not enough expertise on staff, or the annual calibration source standards are too expensive to maintain?



Whole Body Calibration Services

Calibrations performed by qualified experts in in-vivo counting, laboratory spectroscopy, and in-situ spectroscopy:

- NIST-traceable sources and models; industry standard phantoms for in-vivo calibrations
- Full calibration documentation package for future reference and compliance
- Calibrations conducted according to relevant consensus standards (e.g., ANSI, ASTM)
- Sources and Phantom provided for calibrations

Let's be smarter about repairs

Extended Warranties

- Budget ahead of time in case something goes wrong
- No need to get emergency approvals
- Spare Parts Management
 - Proactively "stock" critical spare parts
 - Many storage solutions
 - Also useful for "consumables", such as ICAM filters



Solutions for Improving and Evolving

What problems might you face?

- Improving sounds great, but who has time for that?
- I don't even know what is possible
- I need help to convince my management that investing in an upgrade will save time/money

SERVICE SOLUTION ZOOMS

- Consulting
- Software Customizations
- Updating HPGe for ISOCS
- Contamination Monitors:
 - Passive Studies
 - Radon Progeny Rejection Optimization
- Neutron Dose Studies

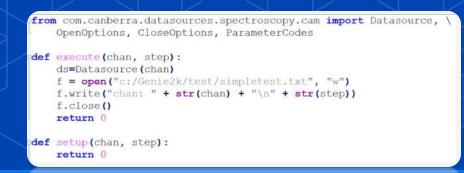


Some examples of "Consulting"

- Creating a nuclide library file for Genie/Apex specific to your needs.
- Talking with your IT group to plan a database migration or upgrade campaign.
- Reviewing your SOP to let you know what needs updating to be compatible with new products... (and we can do those updates for you too)
- >And so much more...

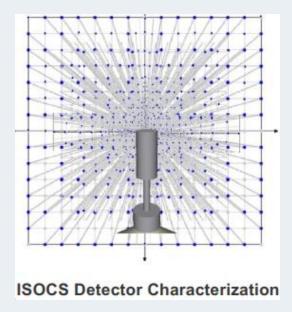


Some Examples of "Customizations"



- Providing Python scripts to...
 - Automatically provide exactly the metric you are looking for.
 - Automatically move results to your data reporting system.
 - Automatically prompt for asking inputs that you want recorded in your measurement.
- Provide Report Modifications to...
 - Put your name / company logo / other identifying information on the software headers.
 - Simplify/modify the report to your exact needs.
- Provide "Bespoke" software solutions





Interested in unlocking the advantages of ISOCS, but not sure how to get started?



STCAL: Have Mirion Services characterize your HPGe Fleet for ISOCS at your site

- Saves Time: STCAL is performed on-site at your convenience.
 - No need to process an RMA.
 - No detector warm-up required.
 - Eliminate shipping delays.
- Minimized Risk:
 - Reduced risk of damage during transport.
 - Fewer chances of vacuum issues from thermal cycles.
- Convenient Setup:
 - All hardware and sources provided.
 - o No need to disconnect your MCA; we bring our own equipment.
- Result:
 - Your detector is fully calibrated and operational upon completion.

Getting More out of your Contamination Monitors



Delays at the RC exit: Can we reducing false positives?

- Radon Progeny in the environment can cause false positives, causing delays at the RC exits
- Radon Progeny Rejection Algorithms can help! But they need to be optimized...
- "CM-Radon" a remote service to review your CM data and provide recommended updates

Dual Purposes:

Can your contamination monitor double as a passive whole-body counter?

- Contamination monitors are for surface contamination.
- But... with proper studies a gammasensitive contamination monitor can be used for whole-body counting clearance measurements
- "CM-Passive" Mirion Services brings calibration phantoms to measure CM whole-body sensitivity and provides report needed for updating procedures





Neutron Dose Calibration Factors; Do you need yours updated?

- Dosimetry program changes?
- Changes in shielding design or new neutron source terms?
- New plant activity, such as spent fuel campaign?
- Power uprates or updated work processes involving neutron dose?



Mirion's "Neutron Dose Studies" Service

- One week of onsite dose measurements performed per ANI Bulletin 11-02 and ANSI N13.11 by Mirion personnel
- All necessary equipment, including phantoms, neutron detectors, placement fixtures, and NIST traceability
- Report providing documentation of measurements and summary table of dose ratios for dose calibration interpretation
- Feel confident in Mirion's expertise for delivering accurate and efficient measurement results

Tying it together:

The Mirion Customer Support Agreements

- Do you need reliable and cost-effective support for your radiation protection equipment and systems?
- Do you want to improve uptime, performance, and risk management?
- Do you want to access expert technical assistance, preventive maintenance, and remote monitoring?
- Do you like discounts on other Services?



Tying it together:

The Mirion Customer Support Agreements

Mirion Services CSA Models and Deliverables	OpenEMS CSA	Introductory CSA	Software Support CSA	Warranty CSA	On-Site CSA
Priority Technical Support	4	✓	✓	~	4
Software Updates	4	✓	✓	✓	✓
Online Customer Portal Access	4	✓	✓	~	4
Discounted Services	✓	✓	✓	✓	4
Online Training – 10% off	4	✓	~	✓	4
Mirion Connect training – 1 person, 2 courses or 2 persons, 1 course free ⁽¹⁾		✓	✓	✓	~
Mirion Connect attendance – 2 persons free, additional persons 10% off		✓	✓	✓	~
Professional Services (optional, see list above)			✓	✓	4
Online Training – 1 free course			✓	✓	4
Discounts - Training Outside CSA (10% off)			✓	4	4
Firmware Updates		✓		4	✓
Repairs, HPGe detectors included ⁽²⁾		✓		✓	4
Parts		✓		✓	~
Discounts – Multi-System Software			✓		~
Rollover Services					~
Annual Health Check on-site visit					✓
Discounts - Introductory CSA to CSA (5%)					~
Discounts – Multi-year ⁽³⁾					~
Dedicated Spares Inventory (optional)					~
New hardware replacement allowance (optional)					~
Emergency visits – one emergency on-site visit per year					4
Annual Report to document deliverables and activities					4



Thank you



