IBA ACADEMY

FROM TALENT TO EXPERTISE.
Well-trained people
Maximize Your Potential

The IBA academy offers a comprehensive training program held in a worldwide network of competence centers:

IBA Centers
Your benefits:
- Real live hands-on training
- Access to regional centers
- Multi-competences
- Customized and progressive.

Your Site
Your benefits:
- Involve all your staff
- Use your system configuration
- Be embedded in local context.

Internship
Your benefits:
- Join radiopharma team
- Live routine or R&D work
- Be part of scientific community
- Acquire GMP practices.
Your radiopharmaceutical production center

From talent to expertise.
Ensure profitability and efficient operation

- General courses on administration and management
- Fundamentals in cyclotron operation, FDG production, radioprotection and quality control
- Advanced training in quality assurance covering all the aspects of FDG production:
  - General understanding of GMP regulations
  - Regulations tailored to radiopharmaceuticals manufacturing practices
  - Project planning & staff organization
  - Risk analysis
  - Documentation, process description & control
  - Qualification & validation plan for FDG manufacturing processes (from product-in up to product-out)
  - Flows (Peoples - Materials - Product)
  - Working in classified areas, environmental monitoring (HVAC)
  - Raw materials, warehouse management & shipping
  - Radioprotection & waste management
  - Quality Control & Batch release
  - IT system
  - Facility maintenance
  - Customer services
- Internship in a GMP-certified radiopharmaceuticals production in the IBA Molecular Network Center
- Best practices to run a GMP FDG production site.

"The trainings were essential to help me manage the ever-increasing demands of a GMP-certified radiopharmaceutical production center. After the training, all the facets of a GMP-certified facility become clearer and I felt much more confident with my missions."

Stephane Mairlot
Site Manager
Beta+Pharma
Belgium
Cyclotron operation

Increase uptime and productivity

- Cyclotron equipment
- Progressive training from routine operation to maintenance and troubleshooting
  - Start up Cyclone® training: daily operation and basic maintenance
  - Advanced Cyclone® training: preventive maintenance and first line troubleshooting
  - Expert Cyclone® training: fine tuning and advanced troubleshooting on specific sub-systems
    - Target system
    - Radio-frequency system
    - Vacuum system
    - Source system
- Radioprotection fundamentals
- Quality assurance fundamentals

“Our hands-on training was very efficient in realizing the full operation possibilities of this versatile cyclotron in a short time; but it also allowed us to customize our maintenance needs according to the utilization scenario.”

Dr. Uwe Holzwarth
Scientific Officer
Commissione Comunità Europee C.C.R.
Italy
Optimize global production process

- FDG equipment
  - Start up FDG training: daily operation with Synthera®
  - Advanced FDG training: routine FDG production and troubleshooting
  - Internship: FDG production in GMP environment in the IBA Molecular Network Center
- FDG processes
  - Product-in up to product-out, warehouse management
  - Working in classified areas
  - Environmental monitoring
  - Cleaning procedures
  - Waste management
- Routine production beyond FDG: FLT, NaF, FCH, F-dopa
- Radioprotection fundamentals
- Quality assurance fundamentals
- Production tools support.

The training has been extremely helpful for me as a radiochemist working in a GMP environment. The course provided me with the theoretical background about GMP rules as well as practise in $[^{18}\text{F}]$-FDG production facility. A very comprehensive course, I highly recommend it!

Jolanta Szczurek
Radiochemist - Physicist
M.Sklodowska Curie Memorial Cancer Centre
Gliwice, Poland
Quality control

Guarantee safe product drugs delivery

- Quality control equipment
- Quality control processes
- Quality control laboratory organization
- Quality assurance fundamentals.
Advanced training in quality assurance covering all the aspects of FDG manufacturing:

- General understanding of GMP regulations
- Regulations tailored to radiopharmaceuticals manufacturing practices
- Project planning & staff organization
- Risk analysis
- Documentation, process description & control
- Qualification & validation plan for FDG manufacturing processes (from product-in up to product-out)
- Flows (People - Materials - Product)
- Working in classified areas, environmental monitoring (HVAC)
- Raw materials, warehouse management & shipping
- Radioprotection & waste management
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- IT system
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- Customer services

- Internship in a GMP-certified radiopharmaceuticals production in the IBA Molecular Network Center
- Best practices to run a GMP FDG production site.
System operation and maintenance for routine production (Nirta® targets and Synthera®):
- $[^{18}F]$ FLT, NaF, FCH, F-dopa
- $[^{11}C]$ CO$_2$, CH$_4$, CH$_3$I, Acetate, HCN
- $[^{15}O]$ O$_2$, CO, CO$_2$, H$_2$O
- $[^{13}N]$ NH$_3$
- $[^{124}I]$ NaI, $[^{64}Cu]$ CuCl$_2$

Development support
- In-depth use of Synthera® platform for tracer development
- Internship in the IBA network R&D centers
- Be part of R&D community & joint development.
ABOUT IBA
IBA (Ion Beam Applications S.A.), is a cancer diagnostics and treatment company and the worldwide technology leader in the field of proton therapy. The company’s expertise lies in the development of next-generation proton therapy technologies and radiopharmaceuticals that provide oncology care providers with premium quality services and equipment, including IBA’s leading fully-integrated IntegraLab® system.

ABOUT IBA RADIOPHARMA SOLUTIONS
Based on longstanding expertise, IBA RadioPharma Solutions supports hospitals and radiopharmaceutical distribution centers with their in-house radioisotopes production by providing them global solutions, from project design to the operation of their facility. In addition to high-quality technology production equipment, IBA has developed in-depth experience in setting up GMP radiopharmaceuticals production centers.

ABOUT INTEGRALAB® AND SYNTHERA®+
IntegraLab® is a fully integrated solution combining equipment and services for the development of Radiopharmaceutical Production Centers. IntegraLab® includes the building designed with full regulatory compliance and the selection, integration, supply and installation of suitable high-technology equipment to match your radioisotope production goals.

Synthera®+ is a multi-purpose automated synthesizer for the production of $^{18}$FDG, other compounds ([$^{18}$FCH, $^{18}$FLT, Na$^{18}$F, $^{68}$Ga peptides ...). This smallest available module on the market is designed to accommodate a wide range of radiochemistry processes.

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