

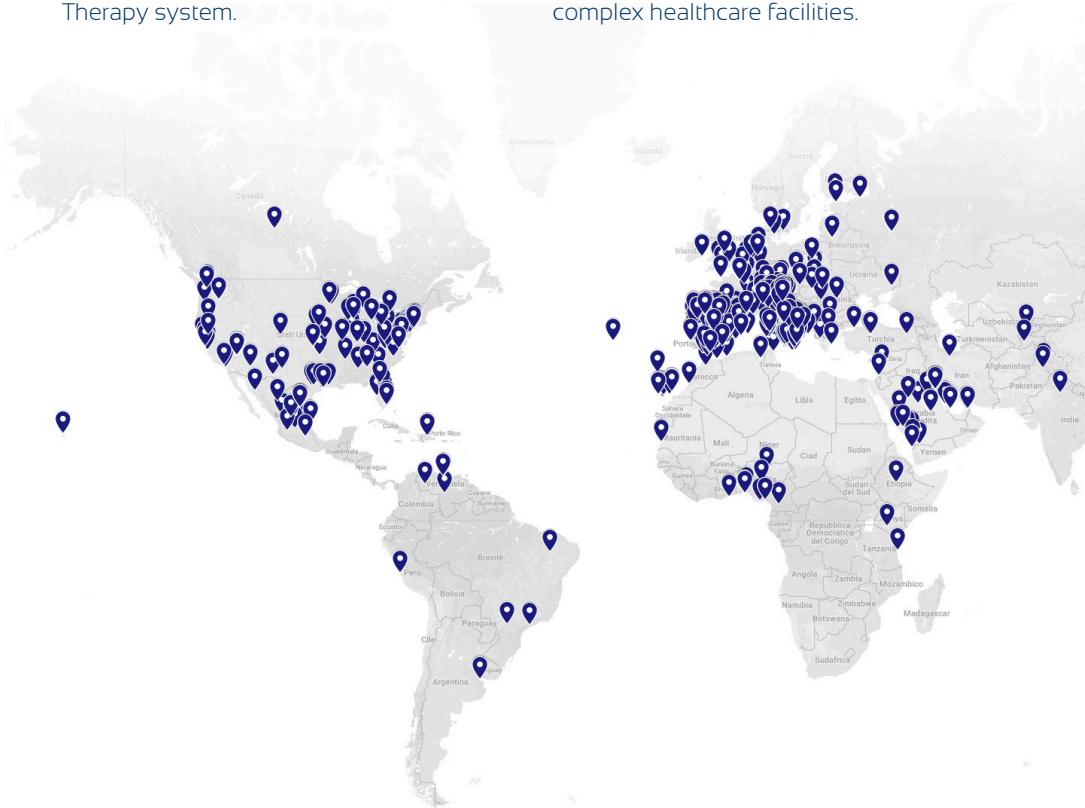


COMPANY **PROFILE**

Overview

Itel provides engineering solutions for highly-specialized healthcare services. Through the Itelpharma division Itel produces and markets radiopharmaceuticals. For the treatment of tumors, Itel is developing an innovative Proton Therapy system.

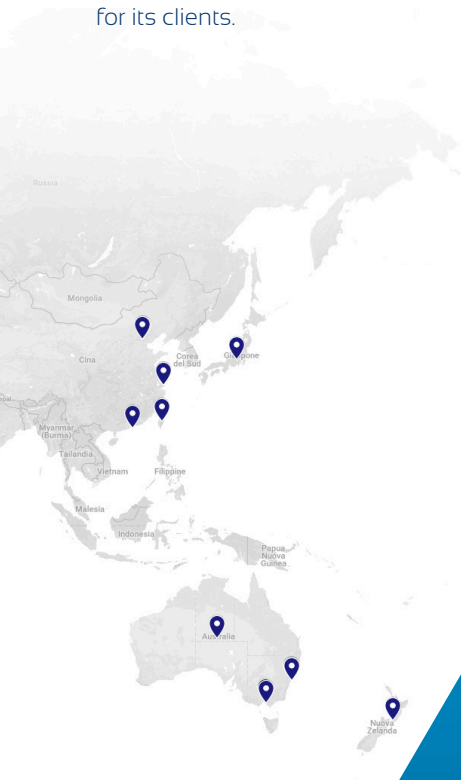
Founded in 1982, IteI has designed and built more than three thousand MRI installations around the globe. IteI provides turnkey solutions for articulated projects such as facilities for diagnostic imaging, hybrid operation theaters and radiopharmacies as well as complex healthcare facilities.





Specialist knowledge of electromagnetic waves and ionizing radiations together with the team's interdisciplinary nature has allowed Itel to develop integrated and innovative solutions for public and private healthcare facilities, guaranteeing the highest quality standards for its clients.

Although its main activities relate to the medical and pharmaceutical sector, Itel has the only laboratory in Southern Italy which can carry out electromagnetic compatibility measurements and testing for electrical or electronic devices for the purposes of CE marking.



*Over 3000
healthcare installations
since 1982*

Innovative Radiology solutions

Itel is a worldwide RF and magnetic shielding specialist.

It provides turnkey solutions for Diagnostic Imaging facilities.

Its multidisciplinary team has a design and implementation capabilities which will satisfy all client needs.

Architecture, facilities, plant and equipment are based on integrated design models developed by Itel, which are constantly updated, so as to comply with specifications for medical

equipment, healthcare processes and legislative requirements.

The result meets requirements regarding effectiveness of engineering works; operational efficiency of healthcare facilities; comfort and safety of patients and healthcare workers.



In the radiology sector Itel also offers:



- Faraday cages and EMI/RFI shielding
- Shielding for ionizing radiation
- Accessories (CCTV, intercom systems, Chromo, Visual and Music Therapy)
- Systems for active compensation of magnetic field variations at low frequency
- Site audit for the installation of medical equipment





Products and services for **Nuclear Medicine**

Itelpharma is Itel's pharmaceutical division. It produces and markets radiopharmaceuticals used in Nuclear Medicine, for cancer, neurodegenerative and cardiological diagnoses.


Itelpharma has two cyclotrons and a double production line. It works in compliance with the current Good Manufacturing Practices (GMP). It has its own microbiology laboratory, which also carries out analyses for other pharmaceutical laboratories and for hospital Chemotherapeutic drugs Manipulation Units.

The laboratory's production capacity, organization system and strategic position all ensure excellent distribution of drugs, which Itel sends to many hospitals in Central-Southern Italy every day.

For radiopharmaceuticals with a short half-life, that cannot be industrially produced, Itel offers support for Galenic Production within Nuclear Medicine departments.

Itel has a wide range of consultancy services.

Thanks to its multidisciplinary teamwork, Itel is able to design and manage all kinds of pharmaceutical laboratory as well as draw up business plans for them, in any part of the world.



Next Generation **Proton Therapy**

Proton Therapy is the most advanced form of radiotherapy destroying tumors without damaging surrounding healthy tissues.

The proton beam releases its maximum energy on the target at the established depth of the diseased tissue in keeping with Bragg peak characteristics.

The protons disrupt tumors' DNA, blocking the latter's ability to replicate.

Currently Proton Therapy is the therapy of choice for:

- inoperable cancers
- radio-induced tumors
- pediatric solid tumors

The ERHA system

ERHA (Enhanced Radiotherapy with HAdrons) is a next generation system for Proton Therapy built by IteI in collaboration with INFN (National Institute for Nuclear Physics), ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Polytechnic and University of Bari.

Main components

- Linear proton accelerator (LINAC) designed for clinical use
- Robotic suite for patient positioning
- Native Treatment Planning Software (TPS) with Full Montecarlo Technique
- Integrated control software for the entire system

The system's strong points

- Low price
- Small footprint
- Modular installation
- Ease of management and maintenance



EMC Test Lab



The EMC Test Lab Division offers regulatory and planning consultancy in electromagnetic compatibility, conformity tests for CE marking of electrical and electronic equipment, assessment of human exposure to electromagnetic fields.

A large semi-anechoic chamber

allows emission tests and RF radiated and conducted immunity tests to be carried out.

A second room is used for measurements of conducted emissions (harmonics, voltage and flicker variations) and immunity to disturbances like Surge, Burst, ESD and H-field.



Safety and Quality



Quality and safety are a priority for IteI, which has chosen to certify its activities with reference to the most important regulatory frameworks.





www.itelte.it/en



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