

## IOD - INDUSTRIAL OPPORTUNITY DAYS

### 12 - 13 GIUGNO 2025

### TORINO

PARTICIPATING SCIENTIFIC LABORATORY /OTHER ORGANIZATIONS	LOCATION	SECTOR	BRIEF DESCRIPTION
<a href="#"><u>CERN</u></a>	Geneva – Switzerland	Fundamental Physics / Astrophysics	CERN is one of the world's leading scientific research centers, specializing in high-energy particle physics. It is home to the Large Hadron Collider (LHC), the world's most powerful particle accelerator, where scientists investigate the fundamental components of matter and the forces that govern the universe.
<a href="#"><u>Divertor Tokamak Test facility (Progetto DTT)</u></a>	Frascati - Italy	Nuclear Fusion / Energy Research	The Divertor Tokamak Test facility (DTT) is a major Italian research infrastructure dedicated to studying solutions for heat and particle exhaust in future fusion reactors. It will play a key role in supporting the development of fusion energy by testing advanced divertor concepts under reactor-relevant conditions.
<a href="#"><u>Einstein Telescope (ET)</u></a>		Fundamental Physics / Astrophysics	The Einstein Telescope is a proposed next-generation underground gravitational wave observatory. It aims to detect gravitational waves with unprecedented sensitivity, opening new frontiers in the observation of the universe and the study of cosmic phenomena such as black holes, neutron stars, and the Big Bang.
<a href="#"><u>European X-ray Free-Electron Laser (European XFEL)</u></a>	Schenefeld - Germany	Research Infrastructure / X- ray Science	The European XFEL is a cutting-edge research facility that generates ultra-intense X-ray flashes to probe the atomic and molecular structure of matter. It enables scientists from around the world to conduct groundbreaking experiments in fields such as biology, chemistry, physics, and materials science. The European XFEL is the world's largest X-ray laser and plays a key role in advancing fundamental and applied research.
<a href="#"><u>Extreme Light Infrastructure European Research Infrastructure Consortium (ELI ERIC)</u></a>	Dolní Břežany - Czech Republic	Research Infrastructure / Laser Physics	The Extreme Light Infrastructure ERIC (ELI ERIC) is the world's first international laser research infrastructure, dedicated to the study of ultra-intense and ultra-short laser pulses. With facilities in the Czech Republic and Hungary, ELI ERIC enables advanced research in physics, materials science, medical applications, and nuclear photonics. Its unique capabilities support cutting-edge experiments that explore the interaction of light with matter at unprecedented intensities.
<a href="#"><u>Fusion For Energy (F4E)</u></a>	Barcelona - Spain	Energy / Nuclear Fusion Research	Fusion for Energy (F4E) is the European Union's organization responsible for Europe's contribution to ITER, the world's largest fusion energy project. Based in Barcelona, F4E supports the development of fusion as a sustainable energy source by coordinating industrial and scientific contributions from EU member states. It plays a central role in advancing fusion technology toward future energy production.

<a href="#"><u>Istituto Nazionale di Fisica Nucleare (INFN) - European Plasma Research Accelerator with eXcellence In Applications (Eupraxia)</u></a>	Frascati - Italy	Research Infrastructure / Accelerator Physics	The Istituto Nazionale di Fisica Nucleare (INFN) leads the Italian contribution to the European Plasma Research Accelerator with eXcellence In Applications (Eupraxia), a cutting-edge project aimed at developing a compact and cost-effective plasma-based particle accelerator. Hosted at the INFN's Frascati laboratories, Eupraxia will support applications in medical imaging, materials science, and fundamental physics, representing a major step forward in next-generation accelerator technology.
<a href="#"><u>European Synchrotron Radiation Facility (ESRF)</u></a>	Grenoble-France	Research infrastructure/ High-performance light source facility.	THE EUROPEAN SYNCHROTRON (ESRF) is a centre of excellence for fundamental and innovation-driven research in condensed and living matter science. It owes its success to the international collaboration of 21 countries, all driven by the same goals of enabling pioneering synchrotron science to tackle challenges that are too complex to be solved by one country alone. Each year, 10,000 researchers come to the ESRF to use its bright X-rays.
<b>REGIONE SARDEGNA</b>	Sardegna Region, Italy	Sardegna Region	Sardegna region is emerging as a tech avant-garde region due to its investments in digital infrastructure and smart city initiatives. It hosts cutting-edge research centers and supports startups through innovation hubs and EU-funded programs. Its strategic focus on AI, renewable energy tech, and cybersecurity positions it at the forefront of Italy's tech landscape.
<a href="#"><u>ELETTRA-SINCROTRONE TRIESTE SCpA</u></a>	Trieste, Italia	Research infrastructure	Elettra Sincrotrone Trieste S.C.p.A. is a leading international research centre located in Basovizza, near Trieste, Italy. It specializes in generating high-quality synchrotron and free-electron laser (FEL) light for applications in materials and life sciences. The centre operates two advanced light sources: the Elettra synchrotron and the FERMI FEL, providing continuous illumination to over 30 experimental stations. Researchers from more than 50 countries utilize these facilities to study matter at atomic and molecular levels, contributing to advancements in various scientific fields. Elettra's mission encompasses basic and applied research, technology transfer, and fostering scientific networks, aiming to promote cultural, social, and economic growth.
<a href="#"><u>ENEA</u></a>	Roma Italy	Research infrastructure	ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) is a public research body in Italy. It conducts research and provides technological innovation services in the fields of energy, environment, and sustainable development. ENEA supports the Italian government in energy planning and climate policy. It works on renewable energy, energy efficiency, nuclear fusion, and advanced materials. The agency also collaborates with industries, universities, and international organizations.
<a href="#"><u>ANSALDO NUCLEARE</u></a>	Genova, Italy	Company	Ansaldo Nucleare is an Italian company specializing in nuclear energy engineering and plant services. It provides design, construction, and maintenance solutions for nuclear power plants and research reactors. The company plays a key role in both new nuclear projects and decommissioning activities, with a focus on innovation and safety.
<a href="#"><u>ILO Network Italia (INI)</u></a>	Roma-Italia	ILO Network Italy	Industrial Liaison Officers (ILOs) are experts who support their nations companies in bidding for contracts at large research infrastructures. The INI brings together Italian ILOs who have been assigned the institutional task of serving as national ILOs at specific European research infrastructures.
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