

COST Action ENRICH

The aim of the COST Action ENRICH, titled “European Network for Radiation-Detection Based Research and Innovation Addressing Increasing Societal Challenges” (CA24131), is to build a European network of researchers and stakeholders whose R&D interests involve the generation and detection of photons, applied in both fundamental and applied research as well as in industry. The ENRICH COST Action is dedicated to astrophysicists, nuclear and atomic physicists, materials scientists, data analysts, researchers working with computer simulations, electronics and optics specialists, and experts in fields such as medicine, cultural heritage, food safety, and fraud detection. A scientific community with such broad interests is often highly fragmented, with subgroups operating in isolated areas. The lack of interdisciplinary collaboration limits knowledge exchange and technology transfer between research centres and industry. The overarching goal of the ENRICH project is to unite these diverse communities and enable cross-sector and cross-disciplinary cooperation to accelerate scientific and technological progress in radiation detection.

The structure of the network is composed of 7 working groups:

- Technological Advancement;
- Software Advancement;
- Electronics and DAQ;
- Multidisciplinary and Societal Applications;
- Integration, Interchange and Mentoring;
- Training and Dissemination;
- Community Coordination.

More information on the specific objectives and tasks of the ENRICH network can be found in the *Memorandum of Understanding* available on the website

<https://www.cost.eu/actions/CA24131/#tabs+Name:Description>

The list of member institutions and their representatives in the *Management Committee* can be found on: <https://www.cost.eu/actions/CA24131/#tabs+Name:Management%20Committee>

The COST ENRICH network offers the opportunity to collaborate with centers equipped with unique and advanced research facilities, as well as to obtain funding for research and development activities through short-term grants (Short-Term Scientific Missions – STSMs) and support for participation in numerous scientific workshops and conferences.

The following events are planned for 2026:

1. First ENRICH Workshop on radiation detectors and readout, 16.03.2026 - 18.03.2026, Palermo, Italy – hybrid;
2. First Annual Meeting, 14.07.2026 - 17.07.2026, Kraków, Poland – hybrid;
3. First ENRICH Workshop on ray tracing simulations, 11.05.2026 - 13.05.2026, Grenoble, France – face to face.

Those interested in collaborating within the ENRICH network are invited to contact Dr. Magdalena Wencka (mwencka@ifmpan.poznan.pl).

Action keywords: Radiation detection-based applications; X-ray and Gamma-ray detectors and electronics; Imaging and spectroscopic applications; Medical and societal applications; Optics, photon sources and MC simulations.