



nepheWS

Neutrons and Photons
Elevating Worldwide Science

ADVANCES
IN SOLID STATE PHYSICS
AND NEW MATERIALS

19th-23rd May 2025

30 years of the Center for Solid State Physics and New
Materials at the Institute of Physics Belgrade



– Trans-National Access For Excellent Curiosity Driven Research

Cormac McGuinness, European Synchrotron and Free-Electron Laser User Organisation (ESUO);
A. Schneidewind, European Neutron Scattering Association (ENSA); **B. Murphy**, ESUO; **S. Deledda**,
ENSA; **Piotr Piwowarczyk**, SOLARIS National Synchrotron Research Centre, Poland; **R. Georgiev**,
Trinity College Dublin, Ireland;

Overview of NEPHEWS

- NEPHEWS is an Horizon Europe Co-funded project involving 23 partners. This includes 10 synchrotron facilities, 6 advanced neutron facilities and 6 free-electron laser facilities. NEPHEWS runs until the end of 2026.
- NEPHEWS provides funding for **Trans-National Access** – travel and accommodation supports – for Excellent Curiosity Driven Research peer-reviewed and accepted at the TNA participating facilities.
- The Twinning and Early-Stage Researcher programmes give unique opportunities to become involved in research at all of these facilities.
- Virtual Training for novices and newcomers is available.
- Priority access for the user community of **Serbia** – with 7 other selected countries – is in place for TNA, outreach and community support.



EU Facilities: **9 synchrotrons**, **6 free electron laser lightsources**, and **6 neutron sources**.

Trans-National Access

- ✓ Access to the Open national synchrotron, free electron laser & neutron user facilities of Europe is **free of charge**.
- ✓ Scientific excellence is the criterion for the award of beamtime at these facilities.
- ✓ NEPHEWS, a Trans-National Access programme, **funds the accommodation and travel for users** to benefit from their award of beamtime; a value of €18M.
- ✓ Access to 14 research infrastructures.
- ✓ For more details, visit:

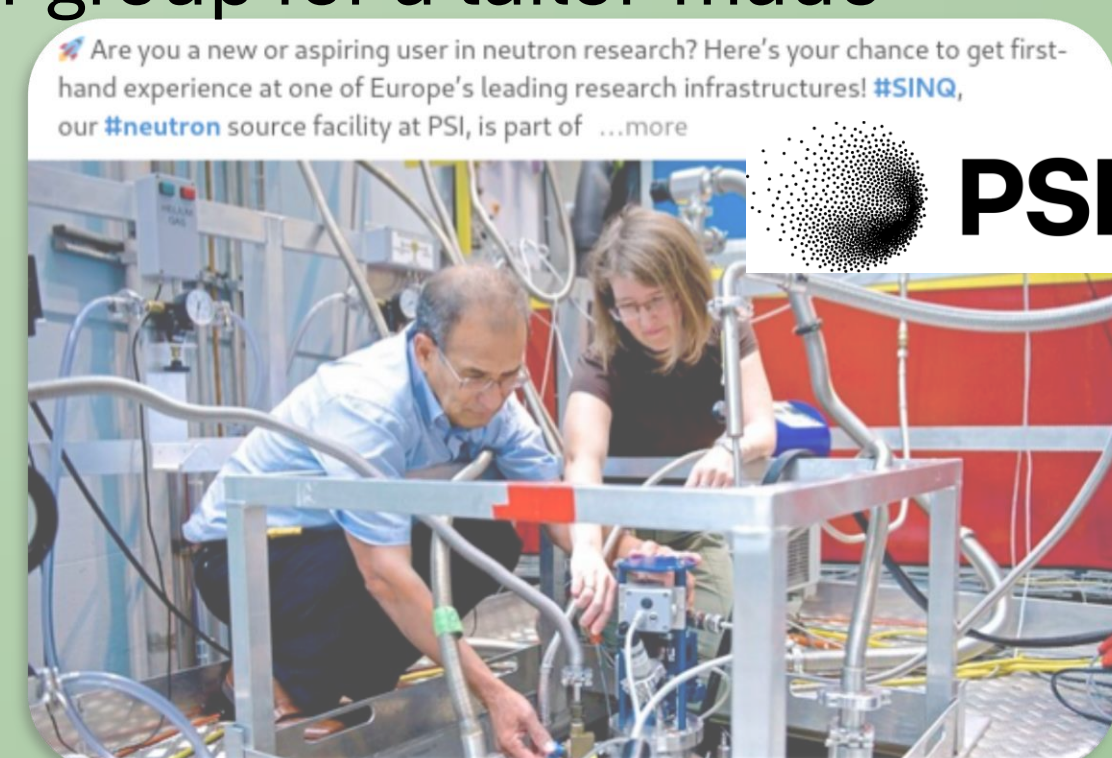
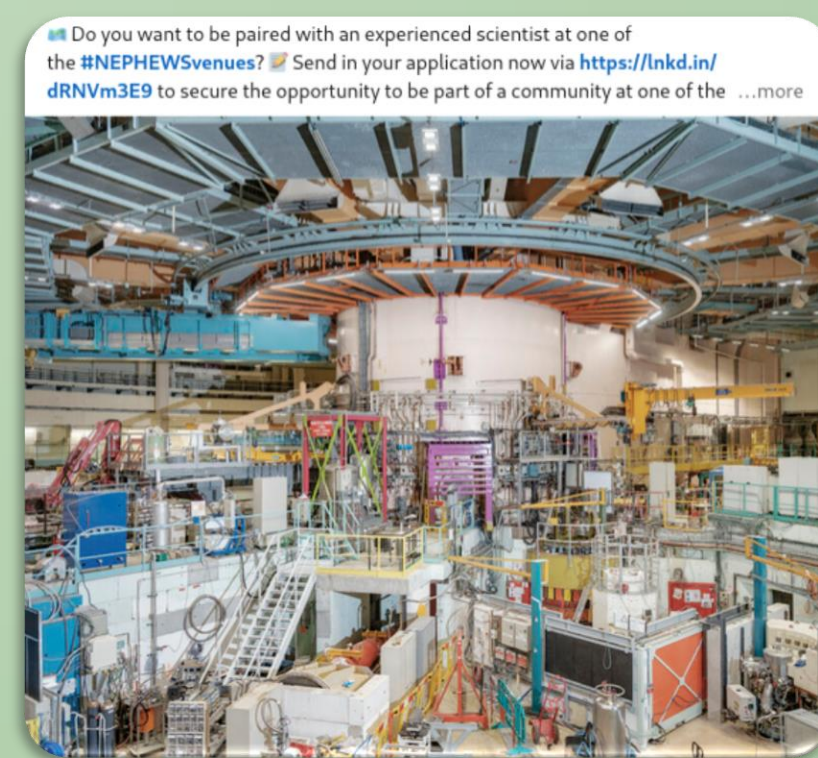
beamtime.eu/programmes-support/tna/

Twinning Opportunities

Be a Twinning guest and join an experienced user group for a tailor-made experience of beamtime at user facilities.

Leverage this opportunity to be a future user!
84 neutron & 51 lightsource twinings in total.

beamtime.eu/programmes-support/twinning/



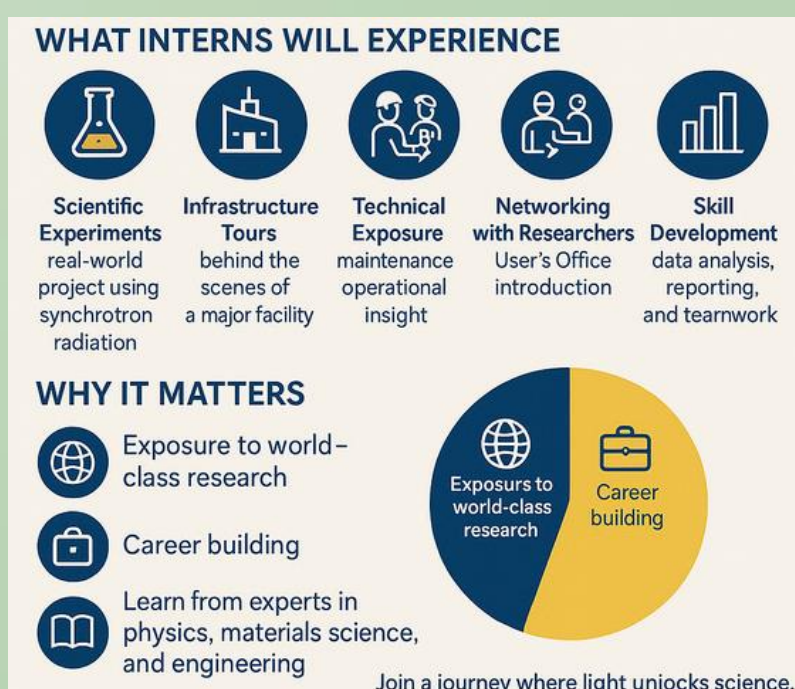
Call for proposals at European XFEL just opened. [See link below.](https://linkd.in/dqciGrkS)
Wouldn't even know where to start? Then head to www.beamtime.eu to find your experienced "twin" to explain the process and answer your questions.



Early Stage Researchers

2nd call for Early Stage Researchers Programme in the autumn of 2025.

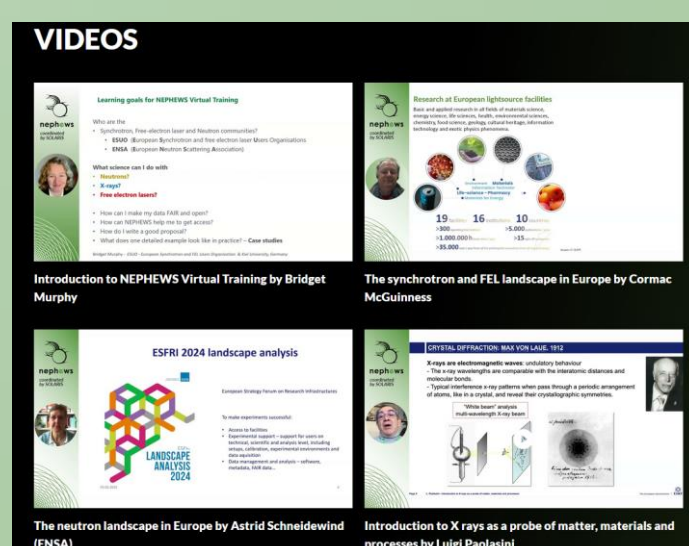
Unique opportunity for internship to learn of operations and scientific opportunities at your preferred facilities.



beamtime.eu/programmes-support/esrs/

Virtual Training

1st NEPHEWS Virtual Training was on February 3-4 with 270+ participants.
2nd edition in September; 3rd, 4th in 2026.



- Archived videos.
- Expert tutorials on techniques, science and facilities.
- User Case Studies.
- "How to write a beamtime proposal"

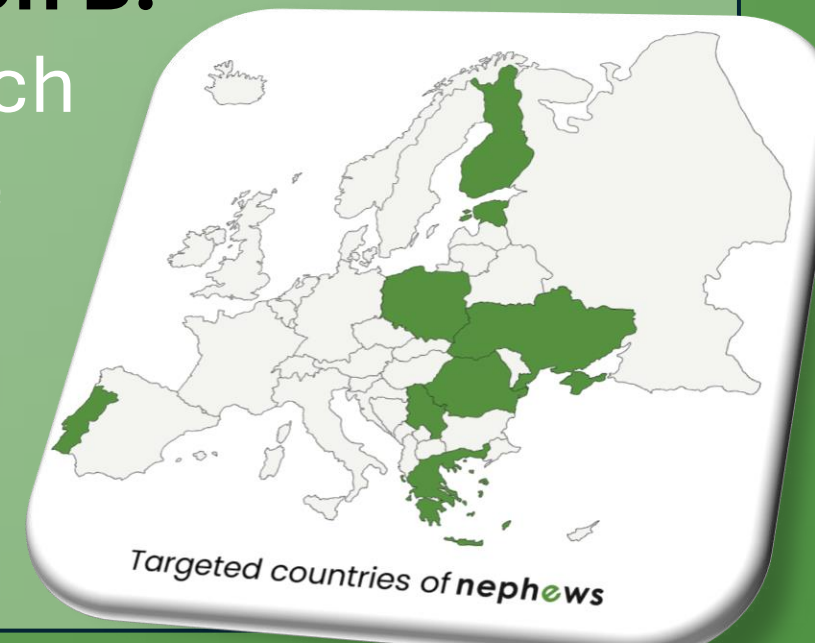
beamtime.eu/virtual-trainings/

Community Building

Support for targeted national communities inclusive of **Serbia**.

Support for national user community building and for policy advocacy.

Attend Friday Session B:
NEPHEWS in Research opportunities at large scale user facilities



The activities are funded and we will help you every step of the way.

JOIN US!

www.beamtime.eu

www.linkedin.com/company/nepheWS-project



Co-funded by
the European Union



This poster was produced under workpackage 2 of the project "NEutrons and PHotons Elevating Worldwide Science (NEPHEWS) and has received funding under the EU Framework Programme Horizon Europe under grant agreement n° 101131414. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.