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TELESCOPE

**ET-PP**

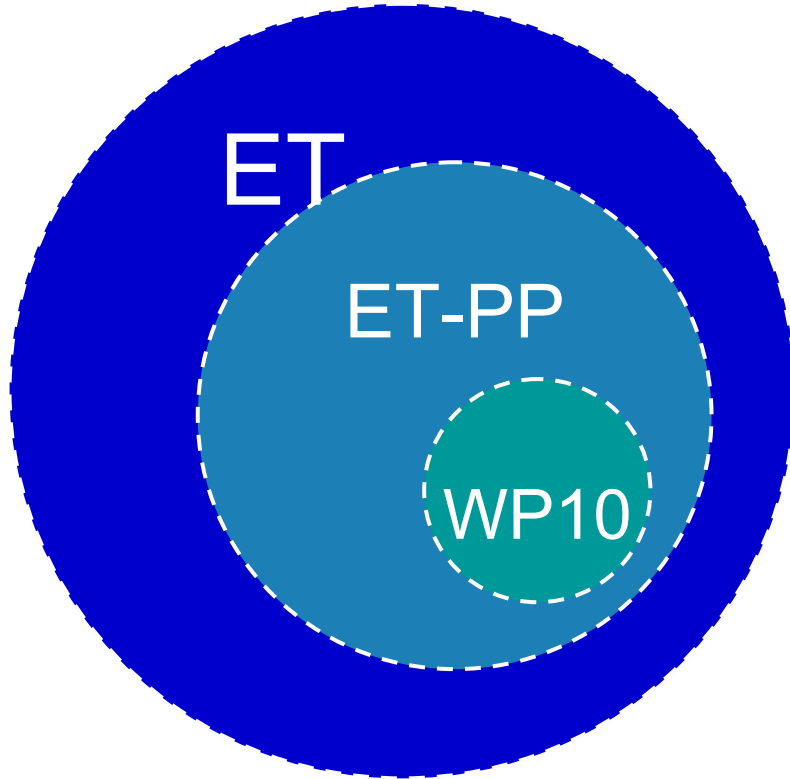
**Preparatory Phase for the Einstein Telescope  
Gravitational Wave Observatory**

# WP10: Early-Career Scientist Mentorship and Training Programme

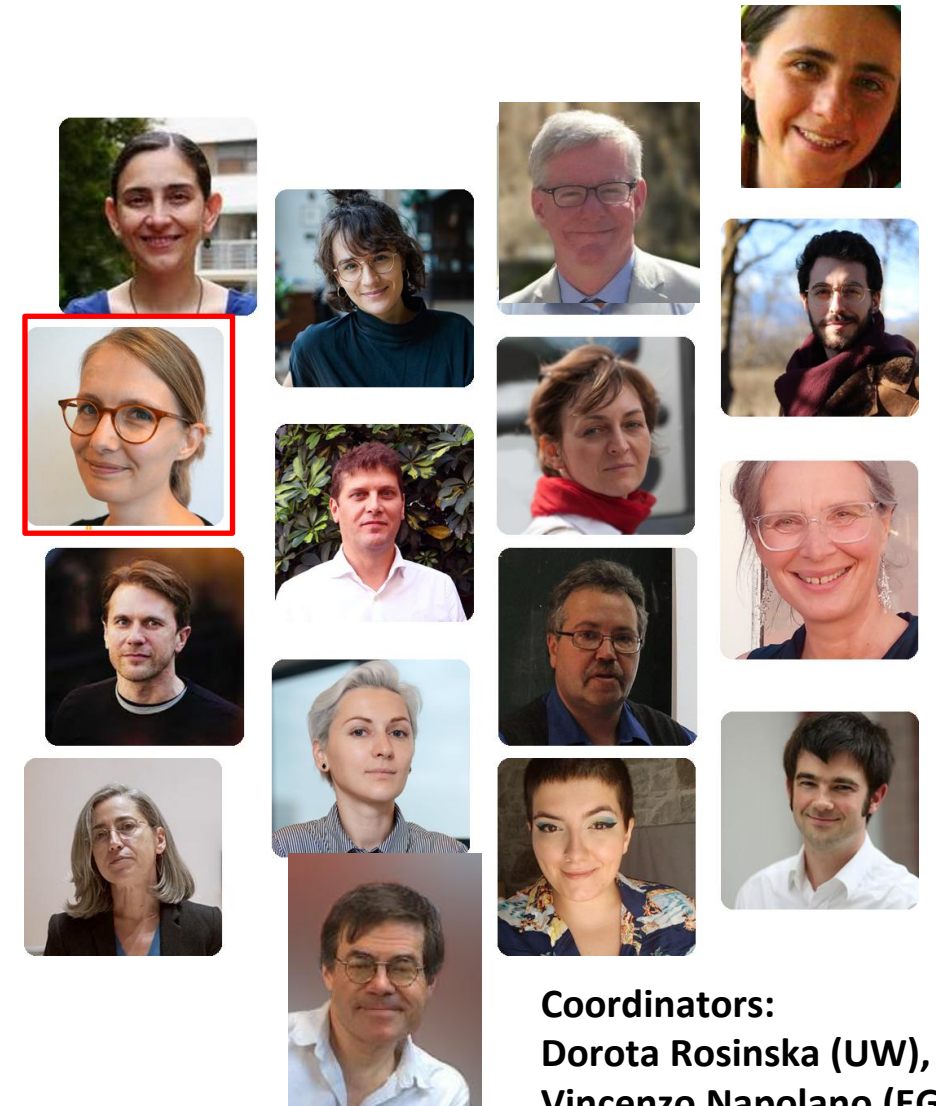
Martin Hendry, University of Glasgow, UK

*on behalf of the WP10 team*

# MEET THE TEAM



**~20**  
people contribute



**Coordinators:**  
**Dorota Rosinska (UW),**  
**Vincenzo Napolano (EGO)**

## **WP10 deliverable D10.5:** Develop ECR mentorship and training programme

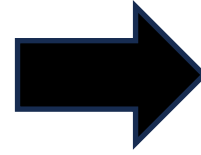
**Co-ordinators:** M. Hendry; M. Biesiada, G. Koekoek, S. Rieger, D. Rosińska

### **Overview of progress + milestones: Jan 2025 – May 2026**

- Gathered information on **similar MTPs**, across GW community and beyond
- Met with leadership of **LECS (LISA), LAAC, GWECS, especially ET ECSC**  
→ *advisory group of ECRs* → **“Mentorship and Training Council” (MTC)**
- Interacted with EC scientists at **LVK, Amaldi, ET Symposium + ETPP Meeting**
- Conducted **mentimeter surveys** of EC scientists in **Bologna, Glasgow**.  
→ *Broadly consistent results from each – with some **clear views / needs identified***
- Conducted **google survey** on ET community **training needs + opportunities**
- Launched **pilot mentoring programme**, running **Apr-Oct 2026**
- Completed **draft report**, awaiting **internal review**

## What we have learned:

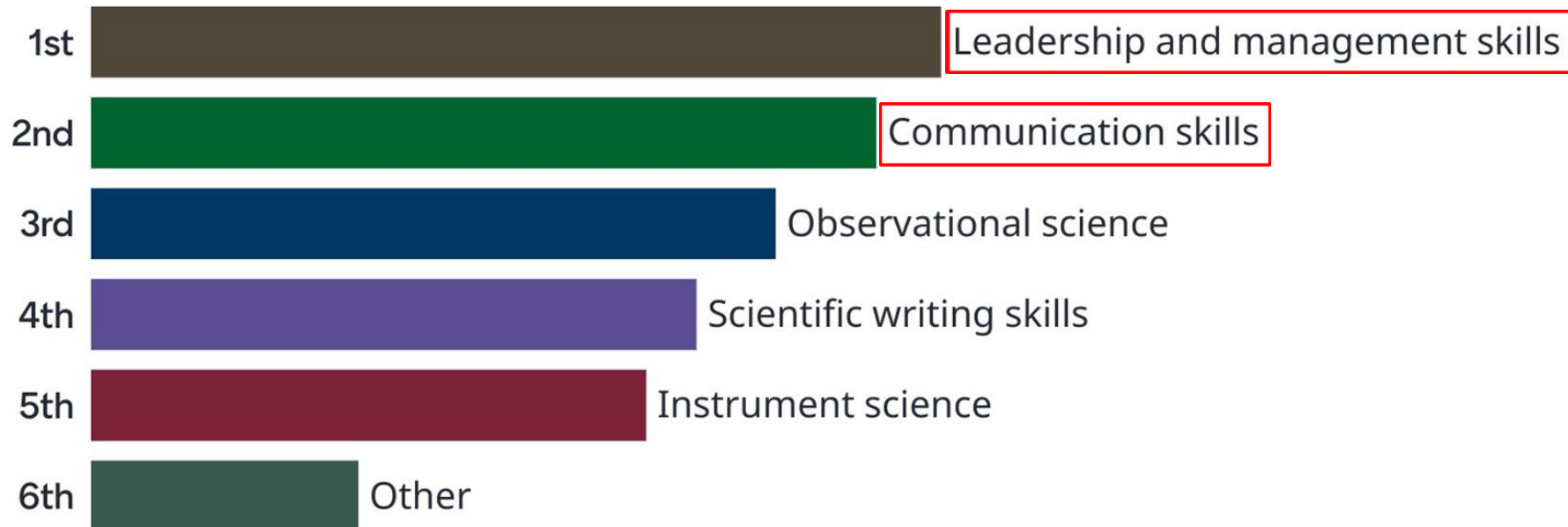
- Lots of activity/good practice, involving both **mentorship** and **training** aspects



### *Key Observations*

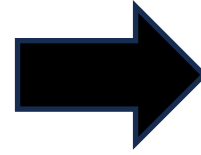
1. Avoid **repetition/duplication**
2. **Broaden scope** beyond ECRs
3. Build upon **what already works!**

## Which of these **skills** should the ET MTP **prioritise** in its first phase?



## What we have learned: **Mentorship**

- Lots of activity/good practice, involving both **mentorship** and **training** aspects



### *Key Observations*

1. Avoid **repetition/duplication**
2. **Broaden scope** beyond ECRs
3. Build upon **what already works!**

- Existing mentorship schemes such as LECS provide successful model, with many resources created and key questions about structure and approach addressed.
- Pilot **mentoring programme** launched in **March 2026**
  - modelled closely on **LECS** and **Virgo programmes**
  - open call for mentors (**23**) and mentees (**28**)  
MTC overseeing mentor-mentee pairings; kick-off meeting **25th March**.
  - pilot will run for 6 months followed by **evaluation** and **report**.

## **BACKGROUND AND MOTIVATION**

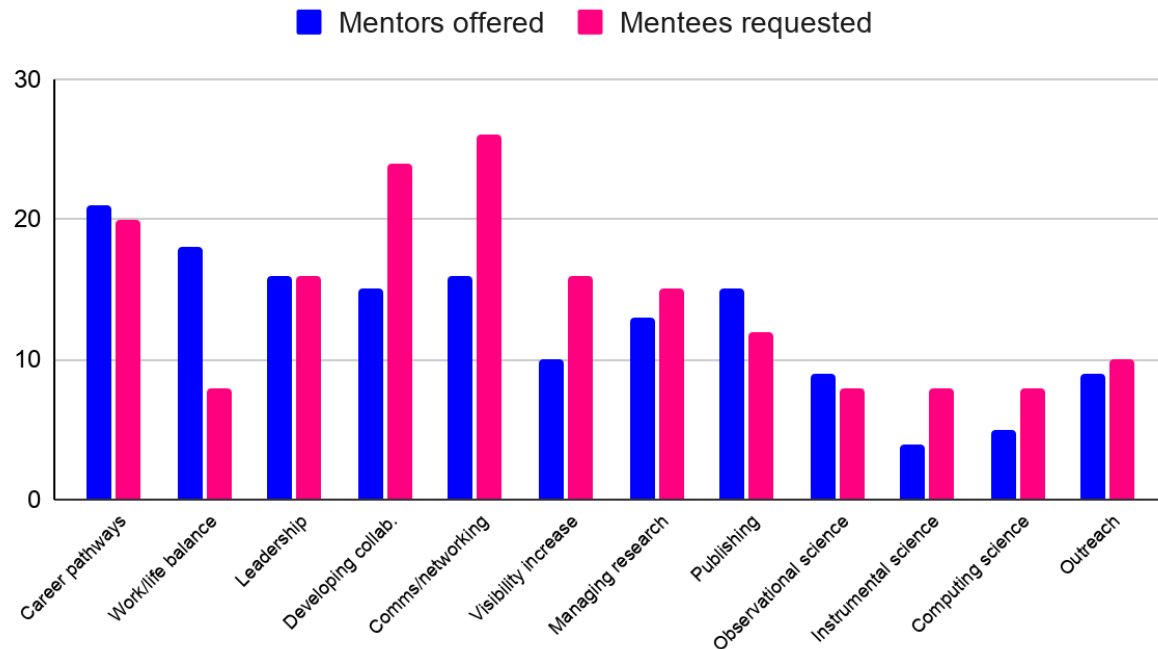
We are launching a **pilot mentorship programme** for the Einstein Telescope community (ETC) which aims to provide help and guidance for early career ETC scientists, engineers and other professionals, helping them to navigate the complex environment of a large consortium.

The objectives of the ETC mentorship programme are to:

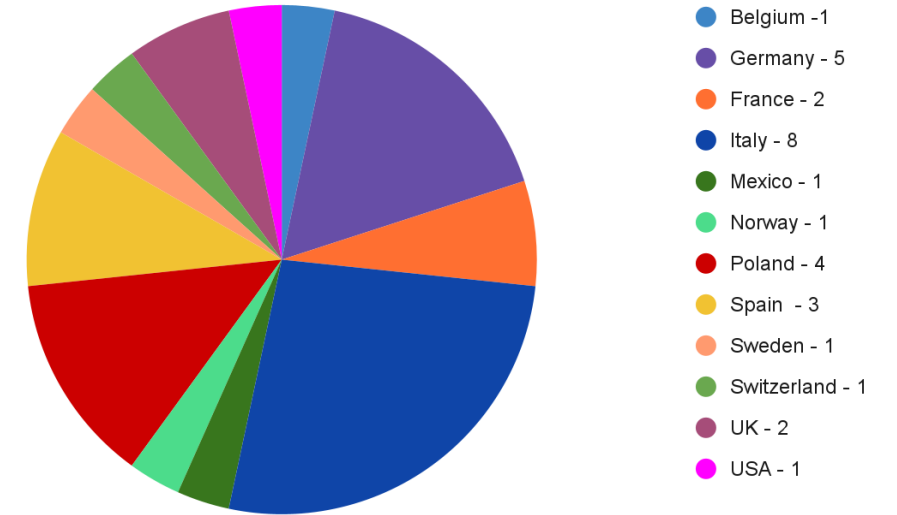
- Provide one-to-one mentorship support for early career members of the ETC.
- Share resources and advice on opportunities for professional development and personal growth.
- Connect and provide a support network for early career colleagues within the ETC.
- Promote and foster a generally open and inclusive environment within the ETC.

# PILOT DEMOGRAPHICS

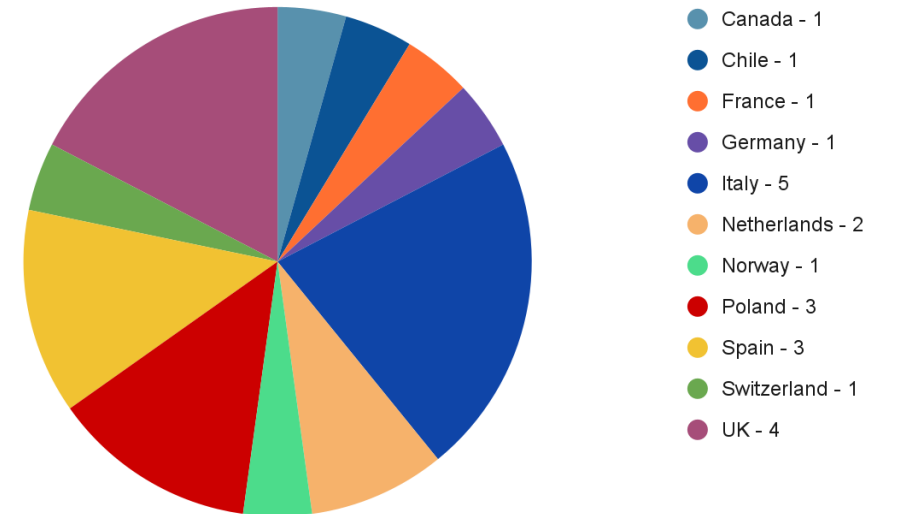
- Roughly even split between observational / instrument scientists amongst both mentors and mentees
- Mentors: 16 male, 5 female, 2 preferred not to say
- Mentees: 16 male, 13 female, 1 preferred not to say
- Two applications to be both mentor and mentee
- Good match between topics offered by mentors and requested by mentees.



Countries - Mentees



Countries - Mentors



In autumn 2025 we circulated a **Google forms** survey to **et-all**

**Aims:** to gather views on:

- future ET training needs
- current local training provision
- are there opportunities to extend local training across ETC?



**Total of 40 responses received**

<https://forms.gle/39dnwgex9g7nhnnY6>

## Einstein Telescope Training Programme: Short Survey

A short survey (for WP10 of the ET Preparatory Phase project) to gather feedback from Einstein Telescope Collaboration members about a proposed ET training programme for Early-Career Scientists and Engineers

Q1. Please tell us, in a few sentences, what you see as the **key elements of a future Einstein Telescope training programme** for early-career scientists and engineers.

Long answer text

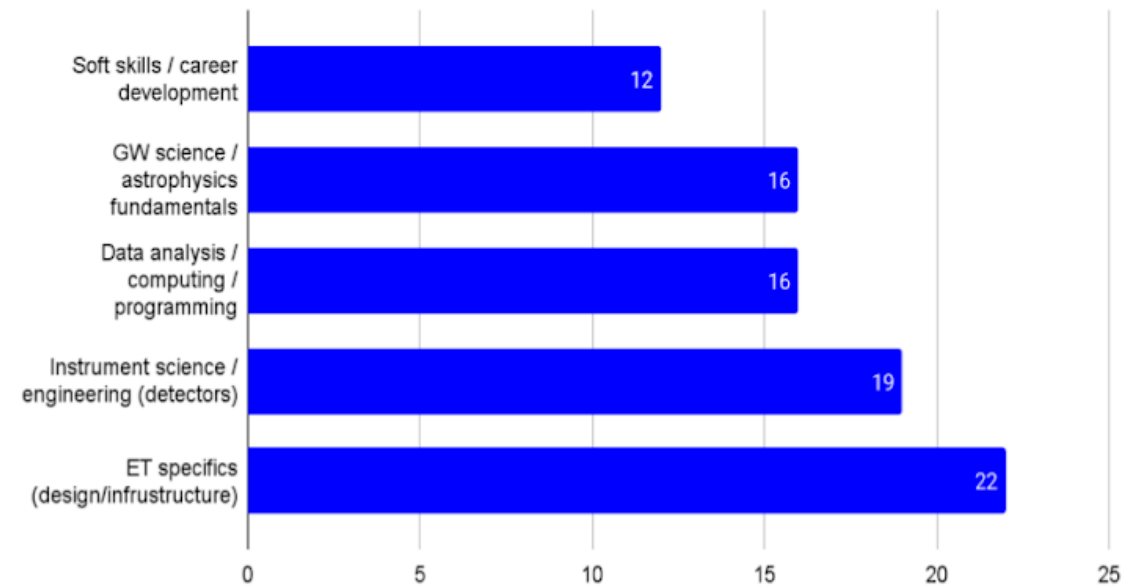
Q2. What **local** training courses or workshops does your institution currently offer to early-career scientists or engineers? (Please include links to any online resources or webpages, if available.)

Short answer text

## Q1. Please tell us, in a few sentences, what you see as the key elements of a future Einstein Telescope training programme for early-career scientists and engineers.

- Blended format is repeatedly requested (online modules + hands-on workshops) (20/39).
- Strong demand for instrument & detector training alongside science (19/39).
- Data analysis, software and programming skills appear as a core need (16/39).
- Many respondents ask for ET-specific context (design, subsystems, infrastructure, roadmap) (22/39).
- A non-trivial share mention soft skills (project work, collaboration, communication) (12/39).

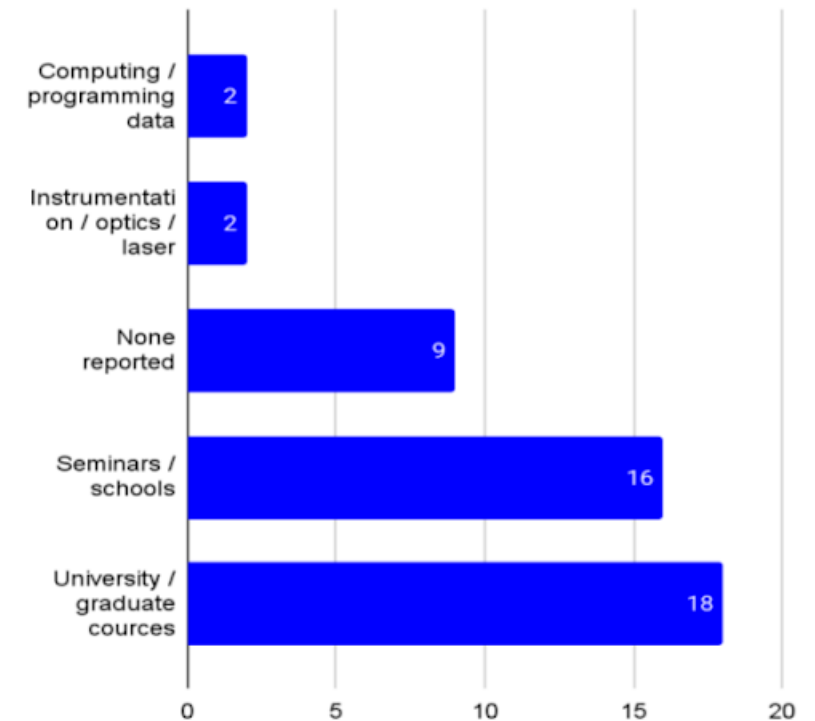
Points scored



## Q2. What local training courses or workshops does your institution currently offer to early-career scientists or engineers?

- Availability is uneven: some institutions report no local courses (9/35).
- Most mentions refer to university/graduate teaching and general courses (18/35).
- Seminars, colloquia and (summer) schools are common building blocks (16/35).
- A recurring implicit need: make offerings discoverable (shared catalogue / central calendar / access rules).

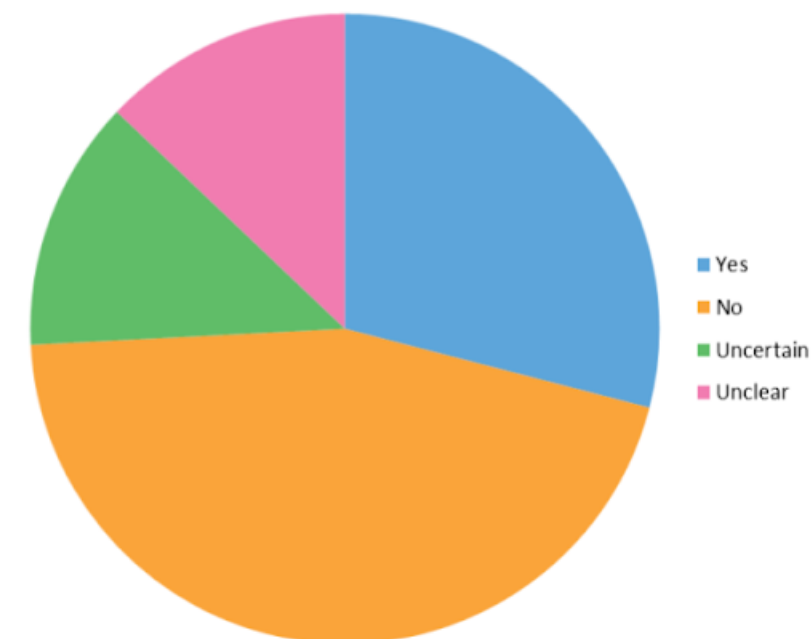
Period 1 and Period 2



### Q3. Could any of the local training courses or workshops currently offered by your institution be made available to other ETC members?

Contribution signal (Q3)

- Clear “yes” exists, but responses are mixed: Yes 9, No 14, Uncertain 4, Unclear 4 (base 31).
- When people say “yes”, they typically propose sharing existing lecture material, seminars, or commissioning / operations know-how.
- When people say “no” or “uncertain”, the most common reasons are: internal-only courses, unclear ownership, or limited capacity.



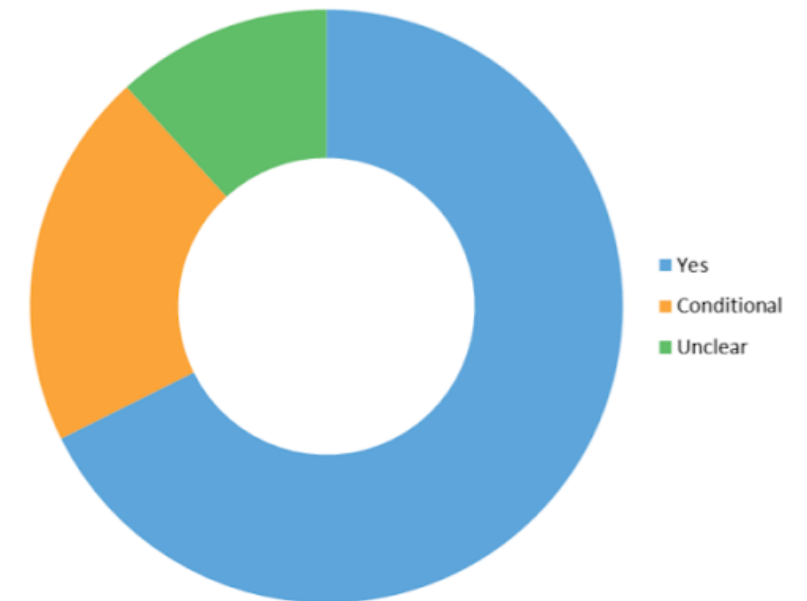
Tip: “Yes” can be operationalised via

- guest lectures
- shared slide decks
- recorded tutorials

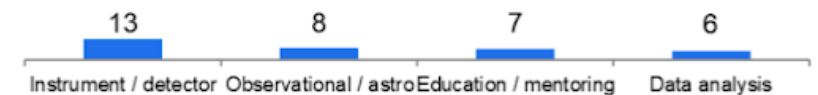
## Q4. Would you (or members of your ETC group) be interested in providing future training opportunities (e.g. lectures, workshops, practical activities) for the Einstein Telescope Collaboration?

- Interest is strong overall: Yes 23, Conditional 7, Unclear 4 (base 34).
- Most frequently offered areas: instrument science / detector R&D (13/34), observational science (8/34), and education/mentoring (7/34).
- Common constraints: capacity/time, need for clearer scope (“what exactly is needed?”), and preferred formats (remote vs. in-person).
- Good “starter” contributions: one-off lectures, hands-on lab sessions, code tutorials, mentoring circles.

Interest signal (Q4)

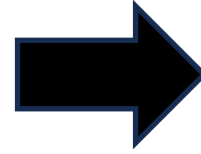


Common contribution areas (mentions)



## What we have learned: **Training**

- Lots of activity/good practice, involving both **mentorship** and **training** aspects



### *Key Observations*

1. We can already curate/promote **existing training opportunities**
2. This will lay foundations for **future training networks**

<https://einsteintelelescope.eu/trainings/>

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# Trainings and Schools

The Einstein Telescope is a highly ambitious research infrastructure designed to open a new era of gravitational-wave astronomy and fundamental physics. Making ET a success will require a new generation of highly qualified researchers, engineers, and specialists who continuously develop skills across science, technology, and collaboration.

Below we are publishing a snapshot of options that are openly accessible to the wider early-career ET community right now — from a near-term in-person workshop to flexible self-study resources and a summer school focused on multimessenger astrophysics.



<https://www.mpg.de/en/imprs>

## Contact

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### Regional distribution of International Max Planck Research Schools

Regional distribution of International Max Planck Research Schools.

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### International Max Planck Research Schools

Structured doctoral training and excellent research conditions - this is what the International Max Planck Research Schools stand for. The first such school was founded in the year 2000. Since then



## A state-of-the-art degree in research

Since 2000, the International Max Planck Research Schools (IMPRS) have become a permanent part of our efforts to promote Ph.D. students. Talented German and foreign junior scientists are offered the opportunity to earn a doctorate under excellent research conditions. A shared characteristics of the graduate programmes at Max Planck Institutes is a close collaboration with universities.

Currently, there are 68 IMPRS. The research schools are established





Preparatory Phase for the Einstein Telescope Gravitational Wave Observatory

**Deliverable 10.5**

**Launch ECR mentorship and training programme**

Lead beneficiary: UKRI

Delivery date: 30 June 2026

Dissemination level: public

Version: 0.1



This project has received funding from the European Commission Framework Programme Horizon Europe Coordination and Support action under grant agreement 101079696.

## Final report drafted and awaiting internal review

For both **mentoring** and **training** topics, report summarises our WP10 methodology and activities:

- i. **Screening:** collecting existing good practice within and beyond the GW community.
- ii. **Scoping:** elaborating the skills and knowledge that ECRs should acquire through mentorship and training activities.
- iii. **Assessing** the willingness of institutions and/or individual members of the ET community to host or otherwise provide mentorship and training activities.
- iv. **Piloting**, as appropriate, mentorship and training activities within the ET community.
- v. **Summarising** the findings and recommendations emerging from the above.

**Internal reviewers welcome!**