

FutureData4EU

Training Future Big Data Experts for Europe

Presentation of the FD4EU Training Programme



Co-funded by the
European Union

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Agenda

- Presentation of the training programme
- Minimum requirements and mandatory activities
- Awarding and recognition of Doctoral Credits
- Calendar of the training programme

FutureData4EU Training Programme

Training Activities			Network-wide training program	Secondments
Scientific/technical skills		Transferable skills (LIST)		
CORE Skills <i>(courses and activities <u>already included</u> in the doctoral courses)</i>	ADVANCED skills <i>(courses and activities <u>to be defined</u> for each Thematic area)</i>	Cross-discipline skills for PhD students	Cyclic network wide events organized by FutureData4EU in collaboration with ART-ER and other APs	2 mandatory secondments in academic and non-academic institution. Not more than 12 months

FutureData4EU: Training Programme

Training Activities

Scientific/technical skills

CORE Skills

(courses and activities already included in the doctoral courses)

- Phd courses
- integrated training opportunity with all PhDs Students (e.g. [Summer and Winter Schools at the University of Bologna — University of Bologna](#))

ADVANCED skills

(courses and activities to be defined for each Thematic area)

- Big Data Life Cycle of Big Data Analytics and Management topics
-

Transferable skills ([LIST](#))

Exemples:

- IPR, patents, exploitation of results, entrepreneurship
- Proposal preparation, scientific writing, project management, task coordination
- Ethics, RRI, Open Science, Gender Issues, Diversity awareness
- Communications and outreach skills, Languages

- [Transversal Skills Program for PhD Student \(UNIBO\)](#)

FutureData4EU: Training Programme

Network-wide training program

Cyclic network wide events organized by FutureData4EU in collaboration with ARTER and other APs, will focus on joint activities designed **to complement those offered locally**.

Thematic workshop on Big Data



Workshops about the state-of-the-art of the interdisciplinary science & technologies that FutureData4EU needs

Summer school on public engagement and dissemination



To train DCs in tools to engage the wider community (from professionals to general public), including social media contents, videoclips, open-day events, interviews and articles and make them active player in FutureData4EU dissemination.

Research symposium with industry & business incubator



Training & practice in research innovation and entrepreneurship skills with tutorials/seminars on IPR management & knowledge transfer; trainings on open innovation and industrial research, team working and public speaking.

Joint international conference



PhD conference will be organized by the DCs with the support of **supervisory team** to present their outcomes and invite relevant speakers from outside, with a session focus on post-doctoral opportunities.

FutureData4EU: Training Programme

Secondments

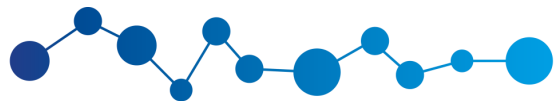
two mandatory secondments:

- 6-8 months in a European Academic Partner or extra-EU University (interdisciplinary approach)
- 4-6 months in non-academic institution (inter-sectorial experience)

The overall two secondments will not cover more than 12 months.



Candidates have to be guided in that choice through their Secondment Plan at the beginning of their PhD course with the support of **Supervisors**.



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Topical Trainings

Topical Training #1: Big Data + Breakout

Date: 6 February 2026, 10 AM + 11 March 2026

Coordinated by: Prof. Stefano Lodi + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Description: An introduction to Big Data processing, from a methodological and computer system perspective, encompassing data collection, visualization and efficient analysis, with a focus on predictive workflows and natural language tasks for humanities and industrial applications. The classes are organized around presentations, followed by sessions of questions and answers.

Topical Training #2: AI For Science and Science For AI + Breakout

Date: 15 July 2026 + 2 September 2026

Coordinated by: Prof. Daniele Bonacorsi + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Topical Training #3: Humanistic AI + Breakout

Date: 16 December 2026 + December 2026 TBD

Coordinated by: Prof. Stefano Lodi (TBC) + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Topical Training #4: E-Infrastructures, Digital Twins, Explainability and Reproducibility in Modern Research + Breakout

Date: January 2027 + February 2027

Coordinated by: Prof. Luigi Rovati + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Topical Training #5: Evolution in Programming Techniques + Breakout

Date: July 2027 + September 2027

Coordinated by: Prof. Renato Vacondio + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Topical Training #6: Green and Sustainable Computing + Breakout

Date: November 2027 + December 2027

Coordinated by: Prof. Andrea Bartolini / Prof. Paolo Ajmone + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class

Topical Training #7: Responsible Data Handling, Dual-Use and Research Integrity + Breakout

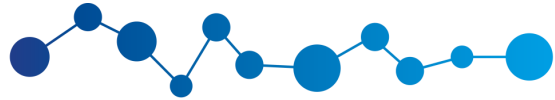
Date: January 2028 + February 2028

Coordinated by: Prof. Roberta Rizzo + Thematic Area Chairs

Total Hours: 6 + 3

Doctoral Credits: 1 + 0.5

Assessment Method: Certified participation and active discussion in class



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Network-Wide Events

Thematic Workshop on Big Data

Dates: 3 Days - TBD April, May, June 2026

Location: TBD

Coordinated by: TBD

Total Hours: 18

Doctoral Credits: 3

Assessment Method: TBD

Summer school on public engagement and dissemination

Dates: TBD September 2026

Location: TBD

Coordinated by: TBD

Total Hours: 12

Doctoral Credits: 2

Assessment Method: TBD

Description: 2-day summer school, organized in collaboration with ART-ER, is planned to train DCs in tools to engage the wider community (from professionals to general public), including social media contents, videoclips, open-day events, interviews and articles and make them active player in FutureData4EU dissemination.

Training on the values of research in and outside the academia and about the social impact of R&I will be included.

Research symposium with industry & business incubator

Dates: TBD April 2027

Location: TBD

Coordinated by: TBD

Total Hours: 6

Doctoral Credits: 1

Assessment Method: TBD

Description: 2-day workshop, organized with the support of ART-ER, will provide the training & practice in research innovation and entrepreneurship skills with tutorials/seminars on IPR management & knowledge transfer. External speakers from the venture capital investment and specialists in business incubation will be invited.

Trainings on open innovation and industrial research, team working and public speaking (pitch) will be included.

Joint International Conference

Dates: TBD 2028

Location: TBD

Coordinated by: TBD

Total Hours: 6

Doctoral Credits: 1

Assessment Method: TBD

3-day PhD conference will be organized by the DCs with the support of supervisory team to present their up-to-date outcomes and invite relevant speakers from outside. By organizing this event, DCs will gain crucial research/project management skills through event organization/communication.

A session lead by ARTER will be focused on post-doctoral opportunities in the Region and beyond.

DC Awarding and Recognition

The **awarding** of doctoral credits is conditional upon the fellows' active participation in the training activities organized by the project, including certified attendance and active participation in class discussions.

To obtain DC recognition, after attending the training activity, the fellow **must send an email to cofund@unibo.it** requesting the issuance of the certificate; the COFUND Team will verify the fellow's active participation in the specific activity before returning the signed document.

Credit Summary

Minimum total credits required: 13 CD

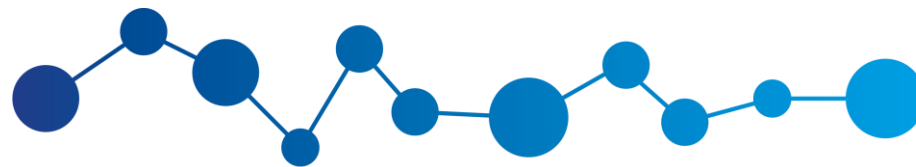
Topical trainings: at least 6 CD (compulsory minimum)

Network-wide events: 7 CD (all compulsory)

Project activities: compulsory, but not credit-bearing individually

Transferable skills courses: not compulsory, but highly recommended

Thank you!



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