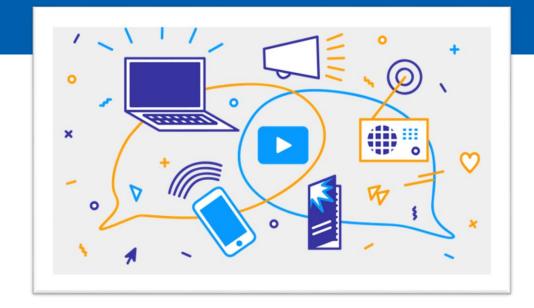


Towards Strategic Professional
Researcher Skills and Training
Provision:
Supporting Research Impact in the
Faculty of Health Sciences

Niamh Brennan
Programme Manager, TCD Research Informatics

niamh.brennan@tcd.ie



TCD FHS Research Forum December 7th, 2021



Mariya Gabriel, EC Commissioner, DG Innovation, Research, Culture, Education and Youth.

"We will develop an **enhanced Framework for Research Careers** within the EU European competence framework and analyse the trends in the research labour market careers, skills and talent.

It will work as an **Observatory on Research Careers** to monitor and recommend measures to facilitate circulation of researchers. Indicators such as remuneration, mobility patterns and employment conditions need to be taken into account ...

... We will also address issues affecting researchers, such as the recognition of the research profession and qualifications in national legislations, precarious working and employment conditions.

... Finally yet importantly, we need to reform the assessment of researchers and research and incentivise more open collaboration, social engagement, knowledge and data sharing."



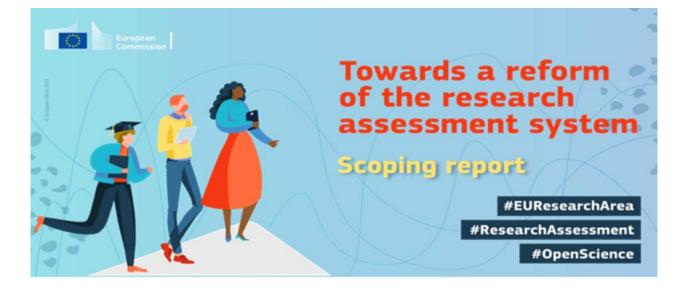
Towards a reform of the research assessment system

Scoping Report

ovember - 2021

Research and Innovation

https://op.europa.eu/en/publication-detail/-/publication/36ebb96c-50c5-11ec-91ac-01aa75ed71a1/language-en



ANNEX

Joint ERAC Standing Working Groups¹ Task Force on researchers' training, incentives and evaluation in Open Science and Open Innovation ('Triangle Task Force')

Guideline Paper

Research evaluation in a context of Open Science and gender equality

Executive summary

This report provides stakeholders involved in research evaluation reforms with a set of guidelines that aim at fostering both Open Science and gender equality. Both topics are key dimensions in the implementation of a new European Research Area and provide policy and decision makers, funders as well as researchers with a unique opportunity to substantially renegotiate, through evaluation, the social roles and responsibilities of publicly funded research, as well as to rethink the science system as a whole.

The report elaborates on six general principles, which are considered as being central in the development and implementation of research evaluation procedures that better support Open Science as well as gender equality: Foster the diversity of open research ecosystems; Promote inclusiveness and collective involvement in the design of Open Science and research evaluation policies; Encourage a responsible attitude in research evaluation; Foster transparency in research evaluation and trustworthiness in the added value of Open Science and gender equality; Provide the right incentives through evaluation; Create a virtuous circle between training and evaluation.

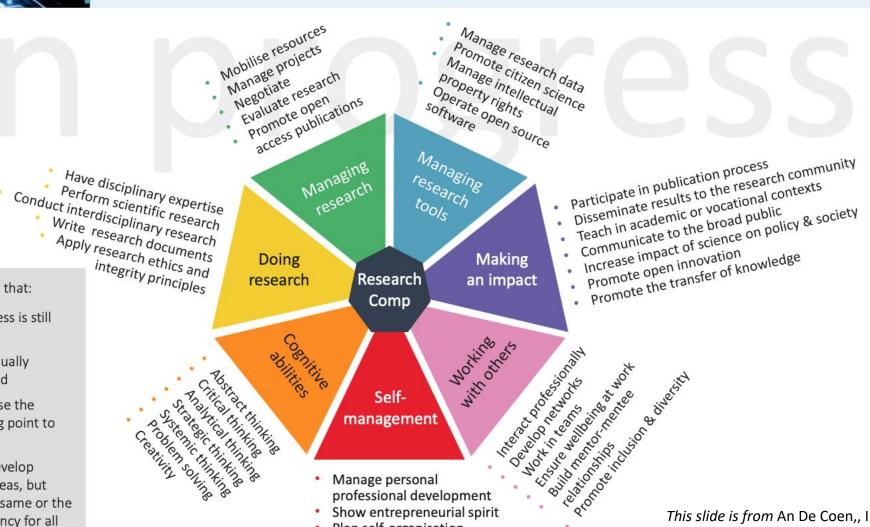
"Promote a virtuous circle between training and evaluation"

- joint ERAC Standing Working Groups Task Force on researchers' training, incentives and evaluation in Open Science and Open Innovation - Triangle Task Force (2021) https://data.consilium.euro

https://data.consilium.euro pa.eu/doc/document/ST-1201-2021- INIT/en/pdf



CONCEPTUAL MODEL OF THE **EU COMPETENCE FRAMEWORK FOR RESEARCHERS**



- All competences are equally important & interrelated

Important to keep in mind that:

ongoing

- The development process is still

Each stakeholder can use the Framework as a starting point to address its own needs

Researchers need to develop competences in all 7 areas, but should not acquire the same or the highest level of proficiency for all competences

Plan self-organisation

Cope with pressure

This slide is from An De Coen,, IDEA Consult:

Knowledge Ecosystems for the New ERA (IDEA Consult) European Commission's Directorate-General for Research and Innovation

Research careers

- Difficulties accessing academic jobs: demand exceeds the number of available positions
- Changes in career progression approaches: moving away from focusing only on publication record.
- Diversity of research careers: More and more researchers are following alternative career paths, yet these paths are still unknown
- Need to foster international and intersectoral interoperability of research careers

EU Policy

- EC's communication on the new ERA for R&I: delivery of a toolbox of support for researchers' careers
- Developing a reference framework with learning outcome descriptors cf. European Skills Agenda
- The Council of EU confirmed the importance of developing a framework for the recognition of the research profession at European level
- the European Skills, Competences, Qualifications and Occupations (ESCO) classification is currently being updated to include a set of skills and occupations for researchers

Focus



Objectives

- Identify a set of key competences that researchers need for a successful research career, both inside and outside academia
- Describe these competences to establish a shared conceptual model that all players in the field of research can refer to and to increase visibility and awareness of the transferable skills researchers have



The EU Competence Framework for Researchers is...

- A shared understanding within the research community of researchers' competences to empower individuals and to help institutions to support them
- Not normative but rather inspirational: the framework should inspire actions based on a shared understanding but leaving freedom and flexibility to institutions to decide how to use it
- Forward-looking but still connected to today's challenges. Skills are constantly evolving over time: the framework will need to be adapted over time to reflect those changes.



Scope

- Individuals employed in research activities across all sectors ('researcher' cf. Frascati manual)
- Research support staff (administrative duties, lab technicians, project management) would not be the primary target group of the framework
- Typically associated to individuals having a **PhD** (or working towards obtaining one)

How can ResearchComp Framework support?

- Researchers/Research organisations:

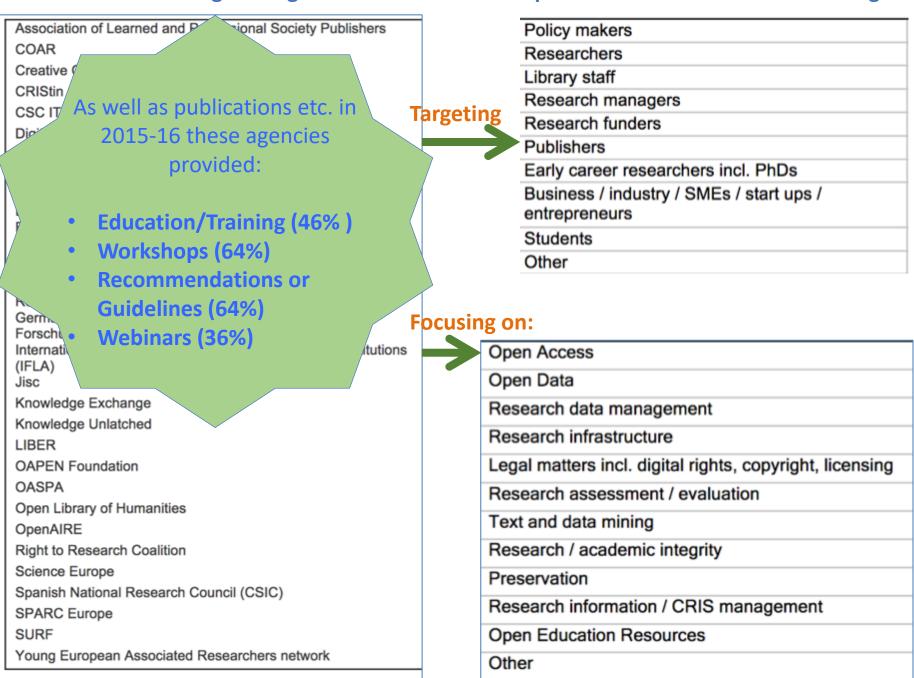
- self-evaluation, setting learning goals, identifying training opportunities and facilitate job search
- Appraise your existing activities or resources against the competence framework
- Show the value of your activities and resources by highlighting those that successfully address the competences in the framework

- Policymakers

- Monitor researchers competences and to support curricula development
- Plan and design education and training offers



Some of the vast range of organisations involved in Open Science information & training in Europe

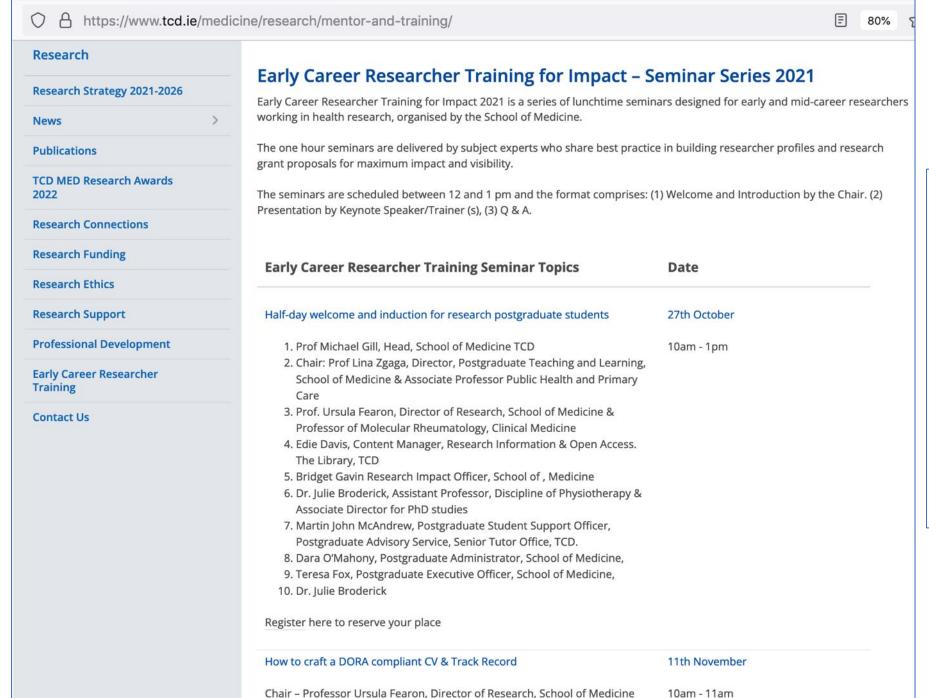


Overall it is likely to take 1-2 years to complete all aspects of the Framework, and it is expected that a certificate would only be awarded after 2

(Musculoskeletal Physiotherapy)

vears.

Within Trinity ...



TCD School of
Medicine
Early Career
Researcher
Training for
Impact
Seminar Series 2021

	Research					
	Informatics)					
New Academic Staff Induction	HR	New Academic & Research staff	Bi-Annual	September/October & March	2-hour Workshop	
Master Class Programme 'Communicating Your Research'	HR	Early Career Researchers	Annual / Bi- Annual	March/April	2-hour Workshop blended with online Epigeum course 'Communicating Your Research'	
'Your Research Impact Health Check'	Schools, Institutes, Research Centres/Groups.	Staff and students	On demand. Many scheduled annual fixtures associated with School research forums / away days.	Year round	Range: 20 minute seminar presentations to 1 hour lectures to 2-hour workshops.	
'Research Data Management and Your DMP'	Trinity Research & Innovation	RPOs and other TR&I staff, ERC awardees, ERC potential applicants	On demand; at least once a year	Year round	Typically 1 hour face- to-face session	
Horizon2020 and Open Research	Schools, Institutes, Research Centres/Groups.	EC & ERC awardees, potential applicants	On demand; at least once a year	Year round	Typically 1 hour face- to-face session	
Academic Promotions/ Tenure applications	HR	Academic staff; Potential applicants	Linked to promotions cycles	Year round	HR Roadshow: 1 hour; 1-to-1 support provided on demand.	
Faculty Research Metrics / research evaluation	Faculties, Schools, Institutes	Directors of Research, Academic staff, Admin staff	Linked to Quality Reviews / Evaluation exercises	Year round; Spring focus for Faculty Research Metrics	1 hour workshop; short (10 minute) refreshers	

Frequency

Time

Format

Target Group

Partner (with

Title

TCD Research Informatics Schedule of Research Skills Training for Academic & Research Staff

Includes:

- New academic staff induction
- Early Career Researcher Master Classes
- Faculty Research Forum presentations
- Joint workshops with Schools & research institutes
- Joint events with publisher/s.
- More, including 1-1 training ...

Menu

Home

Our Services

HR A-Z

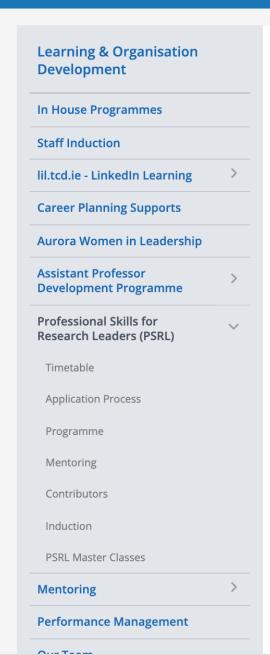
Forms A-Z

News

Privacy

Contact

Gaeilge



LEARNING & ORGANISATION DEVELOPMENT / PROFESSIONAL SKILLS FOR RESEARCH LEADERS (PSRL)

Professional Skills for Research Leaders

The Professional Skills for Research Leaders (PSRL) programme was developed by epigeum, a leading publisher of online courses that specifically target researchers, students, and professional staff in the higher education sector, in consultation with a number of universities worldwide, including Trinity College Dublin.

The PSRL programme is designed to help independent researchers develop their leadership, management and engagement strategies. The programme is targeted at early and mid-career researchers who wish to progress from where they are now to where they want to be professionally by equipping them with the skills needed for professional development in a higher education context.

A new programme and format is currently being redeveloped.

In Spring 2022, the new PSRL Programme will be launched and it will be known as "Advancing your Research Career". New modules will include:

- · Actively Managing Your Research Career
- Building a Positive Research Culture
- The Value of Mentoring
- Accelerating the impact of your Research through Engagement
- Funding your Research
- Leadership for Successful Project Management
- Collaboration
- Managing a Research Team
- Communicating your Research
- Continuing Professional Development Plan

More information will be added when it is available.

If you have any questions about the programme please contact staffdev@tcd.ie



Epigeum 'PSRL' course provided via HR

TCD HR:
https://www.tcd.ie
/hr/learning-anddevelopment/resea
rch-leaders/

TCD Research Skills Programme

TCD Research Informatics with TCD HR (Staff Development)

	Title	Audience	Delivery
Research Skills 1	Research Metrics	Academic &	Scheduled, Zoom & face to
	and Evaluation	research staff	face
Research Skills 2	Promoting Your	Academic &	Scheduled, Zoom & face to
	Work	research staff	face
Research Skills 3	Open Access	Academic &	Scheduled, Zoom & face to
	Publishing	research staff	face
Research Skills 4	FAIR Data	Academic &	Scheduled, Zoom & face to
	Management	research staff	face
Research Skills 5	Publishing and	Academic &	Scheduled, Zoom & face to
	Disseminating Your	research staff	face
	Research		
Research Skills 6	Your Research	Academic &	Scheduled, Zoom & face to
	Impact	research staff	face

With more from colleagues in TR&I and other departments

Research Integrity and Ethics in an Open Scholarship Era CA 7000





cognised ntegrity

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se contact

Compulsory, 5 ECTS, Online module. Started: 2018 – to date (redesigned with NFETL funding, 2020-2021) Audience: all incoming PG research students. Coordination: Niamh Brenan & Monica Sanchidrian

ASSESSMENT

Assessment Information

ONLINE SESSIONS

Session 1: Research Integrity and Ethics

Session 2: Copyright, Intellectual Property and Data Protection

Session 3: Research Data Management and the Construction and Application of Data Management Plans

Session 4: Research Communication, Dissemination and Publishing

Session 5: Research Evaluation and Impact in an Open Scholarship Era

MODULE TOOLS

Module Discussion Forum

Module Learning Journal

Welcome from the Dean of Graduate Studies

Welc	1. Research Integrity & Ethics	Professor Irene Walsh (CSLS)
	2. Copyright, Intellectual Property & Data Protection	Evelyn Fox (DPO)
and rese	3. Research Data Management & the FAIR Data	Dr Geoff Bradley (IT Services)
that	Principles	Niamh Brennan (Research Informatics)
This	4. Research Communication, Dissemination &	Niamh Brennan (Research Informatics)
the N	Publishing	
Ratio	5. Research Evaluation & Impact in an Open Scholarship Era	Niamh Brennan (Research Informatics)

The concept of open scholarship has radically altered the way in which academic research operates in Europe, providing as it does both opportunities and challenges for research students. In addition, funders are increasingly demanding that researchers, including research students, must, as a prerequisite to securing grant funding, have undertaken some training in research ethics. Finally, there are increasing pressures on students, as they conduct research, to be aware of and comply with obligations under intellectual property and data protection law and indeed to ensure the proper management of their research data. This course seeks to provide all Trinity PhD students with the tools necessary to navigate these issues as they proceed with their research. This module is mandatory for all incoming PhD students in line with the decision of Graduate Studies Committee (March 2018) and Council (April 2018).

Module Learning Outcomes

On successful completion of this module, students should be able to:

- Develop the highest standards of ethical integrity in their research
- Critique the basic principles of intellectual property law as they apply to their research
- Investigate the application of Data Protection law in the context of postgraduate research
- Implement best practice standards in research data management and develop an effective Data Management Plan for their research
- Demonstrate awareness of the opportunities that open scholarship provides for them to ensure that their research has maximum impact

Research Integrity and Ethics in an Open Scholarship Era CA 7000

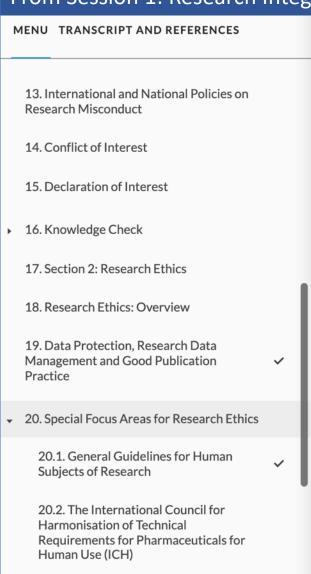




20 of 29

Compulsory, 5 ECTS, Online module. Started: 2018 – to date (redesigned with NFETL funding, 2020-2021) Audience: all incoming PG research students

From Session 1: Research Integrity and Ethics:



Special Focus Areas for Research Ethics

· We will now focus on special focus areas for research ethics.











Click each tab to learn more about these areas, focusing specifically on the ones that concern your own research and practice. When you are ready, click next to continue.





NEXT >

Research Integrity and Ethics in an Open Scholarship Era CA 7000





22 of 28

Compulsory, 5 ECTS, Online module. Started: 2018 – to date (redesigned with NFETL funding, 2020-2021) Audience: all incoming PG research students

From Session 3: Copyright, Intellectual Property and Data Protection:

MENU TRANSCRIPT AND REFERENCES

Assessment (DPIA) and the Role of the Data Protection Officer (DPO)

- 17. Data Protection Impact Assessment (DPIA)
- 18. Data Protection Officer (DPO): Role and Responsibilities
- 19. Overview of the GDPR
- 20. Are you Conducting Health Research?
- 21. Section 5: Health Research Regulations <
- 22. Explicit Consent
 - 22.1. Informed Consent
- 23. Explicit Consent Exemptions
 - 24. Health Research Structures and Processes
- 25. Summing up Health Research

■ GDPR and Research

Explicit Consent

- Explicit consent must be obtained for any health research on Irish patients, with notable exemptions.
- HRR explicit consent:
 - Is equivalent to GDPR explicit consent
 - Is informed consent which the controller has a record of
 - The research participant is provided with a copy in advance of the health research.



Purpose Specification and International Best Practice

Click the tab to learn more. Then, click Next to continue.









We have been asked - What does Health Sciences need?

Recruit, Nurture, Retain Talent – CRITICAL



(Leaders, early career researchers, promotions, clinicians)

2. Invest in Physical Infrastructure

(shared facilities, clinical facilities)



(pre- and post-award, RPOs, clinical trials, legal, ethics, GDPR)

- 4. Improving / Increasing our Impact and Communications
- 5. Data management and reporting (RSS)



Faculty Research Metrics (FRMs)

(appropriate, collaborative)



And which of these can a strategically-designed, professional research skills programme support?





Professional Development

Special Purpose Certificate

Adapting our Teaching for Learning Online (Staff Module)

Learning to Learn Online in Trinity (Student Module)

Graduate Teaching Assistants

Research Supervisor Development Programme

Workshops & Webinars

Podcasts Series: Coffee & Cobblestones

PROFESSIONAL DEVELOPMENT / SPECIAL PURPOSE CERTIFICATE

Special Purpose Certificate in Academic Practice



The Professional Special Purpose Certificate in Academic Practice is a level 9, non-major award that focuses on professional development in academic practice, integrating four interrelated facets: teaching, learning, research and leadership. It carries a credit volume of 15 ECTS.

Who is the Cert for?

This Professional Special Purpose Certificate in Academic Practice is for academics or academic-related professionals in Trinity, including researchers with teaching responsibilities, part time or adjunct teaching staff, or staff with roles in supporting learning. This module is not open to graduate teaching assistants, who have a separate programme. As the course focuses on application of theory to practice and on reflection and evaluation, all candidates should be in an active teaching or supporting learning role while participating in the course. Applicants to this course would normally hold a minimum of an honours degree or equivalent in any discipline. Please view our handbook for more detailed information.

This course offers a professional qualification in academic practice and is designed to be flexible, research-informed and practice-based. It encourages candidates to select their own professional development agenda in academic practice, and allows them to develop and evidence their academic practice, knowledge and values throughout their careers at times that are appropriate to them. The Course is based on the premise that everybody educating our students in Trinity should be committed to and supported in achieving an excellent student learning experience.

Upon completion of the certificate staff can undertake further modules to facilitate lifelong learning and help maintain high quality practice throughout their careers.

The SP Cert aligns to Ireland's National Professional Development Framework which recognises both accredited and non-accredited forms of professional development for academics and those engaged in supporting teaching and learning in the Irish

A possible model?

CAPSL Special Purpose Certificate in Academic Practice

https://www.tcd.ie/CAPSL/p rofessionaldevelopment/specialcertificate/ Would a standardised, authoritative, accredited, professional research skills training programme be useful for the Faculty of Health Sciences?

If so,

- What should be included in such a programme?
- How can staff receive recognition for having completed the programme?
- How can research skills training be designed to support innovative FHS research metrics & ensure understanding and competences in this at all levels?
- Can we work together to develop this concept?





Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Thank You!