



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Measuring Research in the University

CRIS2018 – Kevin Kiely, Niamh Brennan and Ashling Hayes

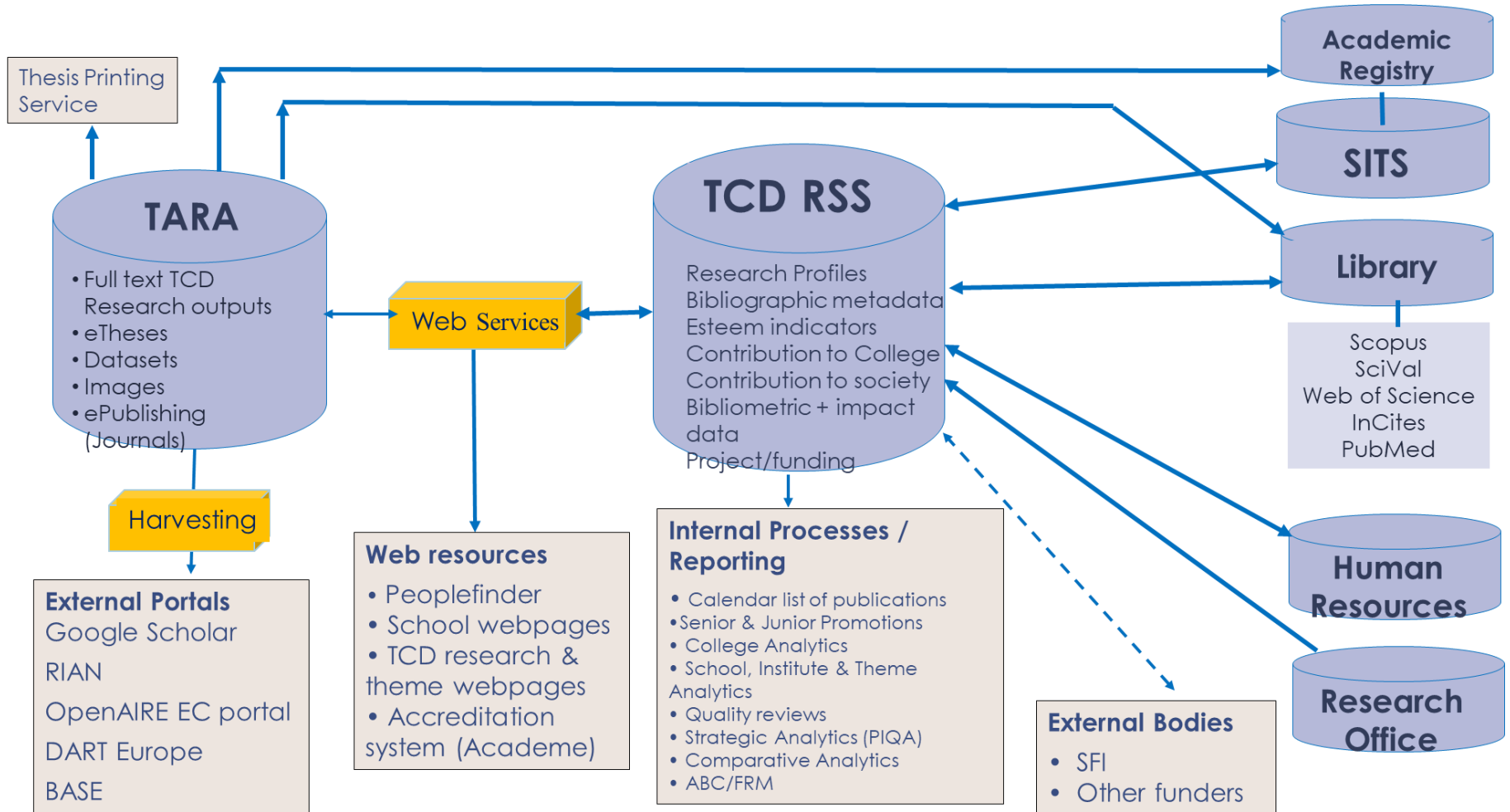
Kevin Kiely

14 June 2018

Current Activities

- **Calendar of Publications.**
- **College Strategic Themes Review.**
- **School Quality Reviews.**
- **Research Quality Metrics.**
- **ABC Research Metrics.**
- **PI Quantitative Analytics.**

TCD Integrated Research Information Systems



Senior Academic Promotions

- **Requested by Human Resources.**
- **Purpose was to implement the College's procedure for promotion to the academic grades of Professor and Associate Professor, as well as accelerated advancement within the Associate Professor grade.**
- **Aug 2016 – Start of requirements gathering.**
- **Oct 2016 – Promotions Workflow development complete.**
- **Nov 2016 – MyRSS and RSS available for UAT.**
- **Mar 2017 – Soft go live.**
- **Apr 2017 - Open call for application, clinics organised by HR.**
- **May 2017 – Closing date for applications.**

Senior Academic Promotions Workflow

- General Information.
- Degrees & Professional Qualifications.
- Honorary Degrees, Awards & Distinctions.
- Professional Memberships.
- Career to Date.
- Key Aspects of Research.
- Top 10 Research Works.
- All peer reviewed works.
- All non peer reviewed works.
- Overview (incl. citation counts, H-index).
- Grants (RPAMS and non-RPAMS).
- Patents.
- Entrepreneurial Ventures.
- Teaching.
- Service to College.
- Philanthropic Activity.
- Conference Organising Committees.
- Service to Discipline/Society.
- External Advisory Roles.
- Outreach Activities.
- Output to Word.
- Edit the Word document if necessary.
- Upload to jobs.tcd.ie.

Top 10 Research Works

Go

Rows 50

Actions

	Year	Reference	Top 10	Work Type	Web of Science Times Cited	Scopus Times Cited	Google Scholar Times Cited	In TARA	Senior Author
	-	Finite element modelling in orthopaedic implant design, RW Lindsey, Z Gugala, Orthopaedic Implants: Applications, Complications and Management, Prendergast, PJ, Taylor, M	N	Book Chapter	-	-	-	N	N
	2015	Khayyeri H, Isaksson H, Prendergast PJ, Corroboration of computational models for mechanoregulated stem cell differentiation., Computer methods in biomechanics and biomedical engineering, 18, 1, 2015, 15-23 http://hdl.handle.net/2262/74060	N	Journal Article	4	8	-	Y	N
	2015	Taylor, M. Prendergast, P.J., Four decades of finite element analysis of orthopaedic devices: Where are we now and what are the opportunities?, Journal of Biomechanics, 48, 5, 2015, 767 - 778 http://hdl.handle.net/2262/73930	N	Journal Article	2	21	-	Y	N
	2015	Xue, F. Lennon, A.B. McKayed, K.K. Campbell, V.A. Prendergast, P.J., Effect of membrane stiffness and cytoskeletal element density on mechanical stimuli within cells: an analysis of the consequences of ageing in cells, Computer Methods in Biomechanics and Biomedical Engineering, 18, 5, 2015, 468 - 476 http://hdl.handle.net/2262/74061	N	Journal Article	2	6	-	Y	N
	2014	Rolfe,Rebecca A., Nowlan,Niamh C., Kenny,Elaine M., Cormican,Paul, Morris,Derek W., Prendergast, Patrick J. ., Kelly, Daniel John ., Murphy, P., Identification of mechanosensitive genes during skeletal development: Alteration of genes associated with cytoskeletal rearrangement and cell signalling pathways, BMC Genomics, 15, 1, 2014, 48- http://hdl.handle.net/2262/73148	N	Journal Article	8	26	-	Y	N
	2013	Boyle CJ, Lennon AB, Prendergast PJ, Application of a mechanobiological simulation technique to stents used clinically., Journal of biomechanics, 46, 5, 2013, 918-24	N	Journal Article	4	12	-	N	N
	2013	Khayyeri H, Prendergast PJ, The emergence of mechanoregulated endochondral ossification in evolution., Journal of biomechanics, 46, 4, 2013, 731-7	N	Journal Article	1	3	-	N	N

Promotions - Next Steps

- Junior Academic Progressions.
 - New general information page.
 - New summary of achievements page.
 - Top 5 Works.
 - Quick Change Tool for updating the Senior Author flag.
 - July 2017 – Go Live, Open Call.
 - Sept 2017 – Closing date.
- Short-listed for the CIPD Ireland Award 2018 for ‘Use of Technology in HR & People Management’.
- Senior Academic Promotions 2018.

Faculty Research Metrics

2009-2013 Research Quality Metrics (RQM).

2014-2017 ABC Research Productivity Metrics (ABC)

2018- Faculty Research Metrics (FRM)

Metrics used to allocate research funding to the schools based on the percentage of academics who meet the criteria

Users advised to update their RSS profiles in Jan by deadline in Feb

FRM Report produced in March

Faculty Research Metrics

FAHSS	FHS	FEMS
Minimum no. of specific publication & other research output types/ specific roles/ 6 years. 4	Minimum no. of specific publication & other research output types/ specific roles/ 4 years. International/National; Senior authorship Peer review (default=N) Editorship role Reviewer role	Minimum no. of specific publication & other research output types/ specific roles/ 5 years. International/National; Senior authorship; Peer review (default=N); Journals classified A,B,C; Papers with citation (i.e. non-self citation); Editorship role Reviewer role
Major research grant submissions/PI	Major research grant submissions/PI	
	Major research grant awards/PI	Major research grant awards/PI
	Leadership role in discipline in practice/ society	Recognition/leadership roles
	Scoring thresholds, relative to academic grade/title held	Scoring thresholds, relative to academic grade/title held

FRM AHSS Scores

Refresh FRM Score

Description of FRM Metric

A. Be the author or co-author of one book, published by a recognised academic publisher

Criterion A is satisfied

B1. Journal articles (single authored or co-written) in refereed or peer-reviewed journals of high standing

B2. Edited or co-edited books or special issues of journals, including an introduction, published by a recognised academic publisher

B3. Chapters and other major contributions (single authored or co-written) in edited volumes published by a recognised publisher

B4. Full length papers in conference proceedings published by a recognised publisher.

B5. Translations (literary, legal, etc.) published by a recognised publisher or for sign language a recognised international equivalent.

B6. Manuscript editing (including electronic dissemination thereof) published by a recognised academic publisher.

B7. GIS, databases, data sets and other research-based websites, as well as transferable uses of information technology, hosted by TCD or a recognised international equivalent.

B8. Substantial refereed or peer reviewed contributions to major works of reference.

B9. Publicly-available public service reports.

B10. Curation of an exhibition, which includes a published catalogue.

B11. Fieldwork collections for archives (speech, folklore, music, material culture).

B12. Publicly-available tests and protocols for educational, developmental, psychological, and other assessments.

B13. Published report of an archaeological excavation.

B14. Creative work (literature, visual arts, music, drama) appropriate to university activity.

B15. PI on a major grant application appropriate to the relevant discipline.

Total Criterion B Score (refreshed at 1am and 1pm)

You have satisfied the Criteria

Faculty Research Output Metrics (click to view)

Non Faculty Research Output Metrics (click to view)

3

1

5

2

0

1

4

2

0

0

0

0

0

0

0

0

0

0

0

0

0

1

0

0

0

0

0

0

12

0

3

25

FRM FEMS Scores - Recognition

Refresh FRM Score

Your FRM Score is automatically refreshed at 1am and 1pm

FRM Criteria Satisfied

FRM Threshold:

5

Total FRM Score:

90

RSS Last Updated On 05-JUN-2018

Recognition - A max of 2 points for Assistant/Associate Professor and 3 points for Professor In/Of can be put forward for the total FRM score

Metric	No. of Items	Weighting	Subtotal	Description	Edit Location	Field to Edit
Leadership roles in learned societies and organisations	0	1	0	1 point for leadership roles in learned societies and organizations	RSS CV	Representations > click '+' to add output and select 'Yes' from dropdown box to indicate leadership
Conferences Organised	0	1	0	1 point for conference organization	RSS CV	Conference Organising Committees > click '+' to add output and enter details
Editorial Board Memberships	0	1	0	1 point for membership of editorial board	RSS Publications	Publications and Other Research Outputs > click '+' to add output > Select 'Editorial Board' as type and enter details
Editor of International Book or Journal	5	2	10	2 points for being an editor in international publication (book or journal)	RSS Publications	Publications and Other Research Outputs > click '+' to add output > Select appropriate type (e.g. book, journal or conference proceedings) and enter details. Ensure Role is set to Editor.
Publications Reviewed	0	.5	0	0.5 point for reviewing research publications	MyRSS (FRM)	Reviews > enter the number of publications reviewed in the past 5 years and click 'Save'
Grant Proposals Reviewed	3	.5	1.5	0.5 point for reviewing research proposals	MyRSS (FRM)	Reviews > enter the number of grant proposals reviewed in the past 5 years and click 'Save'
National Invited Seminars	0	.25	0	0.25 point for invited seminar in Ireland or UK	RSS Publications	Awaiting Faculty guidance for implementation.
International Invited Seminars	0	.5	0	0.5 point for International invited seminar	RSS Publications	Awaiting Faculty guidance for implementation.
National Invited Talks	0	.5	0	0.5 point for invited talk at an Irish or UK meeting/conference	RSS Publications	Publications and Other Research Outputs > click '+' to add output > Select 'Invited Talk' as type and enter details. > select N from International dropdown menu. 'National' for this purpose means Ireland and the UK.
International Invited Talks	1	1	1	1 point for Invited Talk at an international meeting/conference	RSS Publications	Publications and Other Research Outputs > click '+' to add output > Select 'Invited Talk' as type and enter details. > select Y from International dropdown menu.
Recognition Subtotal	-	-	12.5	-	-	-
Recognition Score	-	-	2	Max 2 points for Assistant/Associate Professor and 3 points for Professor In/Of	-	-

FRM FEMS Scores - Scholarship

Scholarship						
Metric	No. of Items	Weighting	Subtotal	Description	Edit Location	Field to Edit
Senior Authored Articles in A-ranked Journals	0	3.0	0	3 points for an original high-quality, peer-reviewed article in an A-ranked journal as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Articles in B-ranked Journals	0	2.0	0	2 points for an original high-quality, peer-reviewed article in a B-ranked journal as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Articles in C-ranked Journals	0	1.0	0	1 point for an original high-quality, peer-reviewed article in a C-ranked journal as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Articles in A-ranked Journals	0	1.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Articles in B-ranked Journals	0	1.0	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Articles in C-ranked Journals	0	0.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Journal Article. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Papers in A-ranked Conferences	21	3.0	63	3 points for an original high-quality, peer-reviewed paper in an A-ranked conference as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Papers in B-ranked Conferences	7	2.0	14	2 points for an original high-quality, peer-reviewed paper in a B-ranked conference as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Papers in C-ranked Conferences	8	1.0	8	1 point for an original high-quality, peer-reviewed paper in an C-ranked conference as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Papers in A-ranked Conferences	0	1.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Papers in B-ranked Conferences	0	1.0	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Papers in C-ranked Conferences	0	0.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Conference Paper. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Book Chapters with A-ranked Publishers	1	3.0	3	3 points for an original high-quality, peer-reviewed book chapter with an A-ranked publisher as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Book Chapters with B-ranked Publishers	0	2.0	0	2 points for an original high-quality, peer-reviewed book chapter with a B-ranked publisher as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Senior Authored Book Chapters with C-ranked Publishers	0	1.0	0	1 points for an original high-quality, peer-reviewed book chapter with a C-ranked publisher as sole, first or lead/senior/corresponding author	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Book Chapters with A-ranked Publishers	0	1.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Book Chapters with B-ranked Publishers	0	1.0	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Co-authored Book Chapters with C-ranked Publishers	0	0.5	0	A multiple of 0.5 of the point system for senior authors is used to calculate points for co-authored articles	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select Book Chapter. Use the Quick Change Tool in the FRM (FEMS) section on MyRSS to make bulk changes to Citations, Senior Authorship, International and Peer-Reviewed flags.
Accepted Patents	0	1.0	0	1 for an accepted patent	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select 'Patent' as output type and enter details. Ensure status is set to 'Granted'
Books	0	4.0	0	4 points for an original, high-quality, peer-reviewed book	RSS Publications	Publications and Other Research Outputs > click '+' to add output > select 'Book' as output type and enter details
Grants Awarded >€100,000	0	1.0	0	1 point for grant funding (of the order of at least €100,000) awarded as PI to support their own research	-	This information is taken from the RPAMS database managed by Trinity Research & Innovation if you are concerned about missing grants please contact your School Research Unit/ Director of Research to have this rectified.
Scholarship Score	-	-	88	There is no cap on the number of points an Academic can achieve here. Journal articles, conference papers and book chapters must have at least one non-self citation in order to be counted	-	-

FRM FHS Scores – Publications & Grants

Refresh FRM Score

FRM Criteria Satisfied

FRM Threshold:

10

Total FRM Score:

64.5

Publications

Metric	No. of Items	Weighting	Subtotal	Description	Section in RSS to be Filled In
Articles in international peer-reviewed journals	62	1.0	62.0	1 point for co-authoring an article in an international peer-reviewed journal	Publications - Journal Article - Y/N dropdown for Senior Author - Y/N dropdown for National/International
Articles in national peer-reviewed journals	0	0.5	00.0	1 point for co-authoring an article in a national peer-reviewed journal	Publications - Journal Article - Y/N dropdown for Senior Author - Y/N dropdown for National/International
Book Chapters	0	0.5	00.0	1 point for co-authoring a book chapter	Publications - Book Chapter - Y/N dropdown for Senior Author
Books	0	5.0	00.0	5 points for co-authoring a book	Publications - Book - Y/N dropdown for Senior Author
Clinical Trial Protocols	0	1.0	00.0	1x clinical trial protocol, named on protocol as co-investigator or sponsor, may count as 1x research paper	Publications - Protocol or guideline
Posters with published meeting abstracts	0	0.3	00.0	3 posters with published meeting abstracts at conferences for 1x research paper	Publications - Poster. For posters to be counted the DOI of the meeting abstract must be included. 3 posters with corresponding published meeting abstracts can be substituted for 1 research paper
Oral Presentations	0	0.5	00.0	2 oral presentations at conferences with a URL or a DOI for 1x research paper	Publications - Oral Presentations. For oral presentations to be counted they must have a URL or DOI. 2 oral presentations can be substituted for 1 research paper
Publications Score	-	-	62.0	-	-

Grants

Metric	No. of Items	Weighting	Subtotal	Description
Major grants submitted (>€100K) as PI or co-PI	2	0.50	01.0	0.5 points for a major grant submitted (>€100K) as PI or co-PI
Minor grants submitted (<€100K) as PI or co-PI	3	0.16	00.5	0.5 points for 3 minor grants (<€100K) submitted totally >€100K as PI or co-PI
Major grants awarded (<€100K) as PI or co-PI	1	1.00	01.0	1 point, additional to the 0.5 point, for a major grant awarded (>€100K) as PI or co-PI
Minor grants awarded (<€100K) as PI or co-PI	0	0.33	00.0	1 point, additional to the 0.5 point, for 3 minor grants (<€100K) awarded totally >€100K as PI or co-PI
Grants Score	-	-	02.5	-

FRM FHS Scores – IP & Recognition

Intellectual Property

Metric	No. of Items	Weighting	Subtotal	Description	Section in RSS to be Filled In
Submissions of Patent Corporation Treaties (PCT)	0	0.5	00.0	0.5 point for submission of Patent Corporation Treaty (PCT)	Publications - Patent - Under 'Status' select Submitted - Under 'Role' select Patent Holder - Under 'Patent Corporation Treaty Year Submitted' enter the year
Patents Granted	0	1.0	00.0	1 point for patent granted	Publications - Patent - Under 'Status' select Granted - Under 'Year Granted' enter the year
Patents Licensed	0	2.0	00.0	2 points for licencing of patent	Publications - Patent - Under 'Year Licensed' enter the year
Intellectual Property Score	-	-	00.0	-	-

National & International Recognition - A Maximum of 3 points can be put forward for FHS FRM from this Section

Metric	No. of Items	Weighting	Subtotal	Description	Section in RSS to be Filled In
Organising Committee for a National Conference	0	0.5	00.0	0.5 point for being member of Organising Committee for a national conference	CV- Conferences Organising Committees section, Y/N dropdown for National/International
Organising Committee for an International Conference	0	1.0	00.0	1 point for being member of Organising Committee for an international conference	CV- Conferences Organising Committees section, Y/N dropdown for National/International
Editorial Board Membership of an International Journal	5	1.0	05.0	1 point for Editorial Board membership of an international journal	Publications - Editorial Board - Y/N dropdown for National/International - Ensure a numeric value is entered in 'No. of years in capacity' field
Editorial Board Membership of a National Journal	0	0.5	00.0	0.5 point for Editorial Board membership of a national journal	Publications - Editorial Board - Y/N dropdown for National/International - Ensure a numeric value is entered in 'No. of years in capacity' field
Editor in Chief of a Journal	1	2.0	02.0	2 points for Editor in Chief of a journal	Publications - Journal - Ensure Role is set to Editor
Editor of a Book	0	1.0	00.0	1 point Editor of a book	Publications - Book - Ensure Role is set to Editor
Invited Talk at National Conference	0	0.5	00.0	0.5 point for invited talk at national conference	Publications - Invited Talk - Y/N dropdown for National/International
Invited Talk at International Conference	48	1.0	48.0	0.5 point for invited talk at national conference	Publications - Invited Talk - Y/N dropdown for National/International
Invited Reviewer for Well-respected Journals	0	0.1	00.5	0.5 point invited reviewer for at least 5x papers for well-respected journals in the discipline	Reviews - Journal - Enter no. of journal articles reviewed
Grant Proposals Reviewed	0	0.1	00.5	0.5 point for reviewing at least 5x grant proposals	Reviews - Journal - Enter no. of grant proposals reviewed
National Public Leadership	0	1.0	00.0	1 point for national public leadership*	CV - Representations - Y/N dropdown for National Public Leadership
National & International Recognition Subtotal	-	-	55.0	-	-
National & International Recognition Score	-	-	03.0	-	A Maximum of 2 points can be put forward for FHS FRM from this Section

FRM Lessons Learned

- **Look for synergies between the faculty criteria**
 - Senior author
 - RPAMS
- **Clearly defined metrics**
- **Customisable weightings**
- **Limit scores to create a balance between scholarship and recognition**
- **Research productive exception e.g. maternity leave, leave of absence, administrative roles**



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Thank You