



REF2021 Results Analysis Tool User Guide



REF2021 Results Analysis Tool User Guide

Contents

REF2021 Results Analysis Tool	2
Introduction	3
Accessing the Tool	3
Uploading data (Admin users only)	4
Creating users (Admin users only)	5
Change your account details (All Users)	6
Metrics, calculations, and rankings	6
Changing weightings and thresholds (Admin users only)	10
Comparator Groups	11
Exporting content	14
Joint Submissions	14
Multiple Submissions	14
Small Submissions	14
Support arrangements	15
Appendix 1: Screens	16

Introduction

The purpose of this document is to provide help and guidance with respect to Elsevier's REF2021 Results Analysis Tool.

Elsevier developed this tool at the request of a number of universities who had used the equivalent tool provided by Elsevier for the REF2014 exercise. Working with these contacts, Elsevier's key objective for this initiative is to ensure the UK university community can gain maximum benefit from the REF2021 outcomes. We understand how important the REF outcomes are to all those institutions who participate in it, and consequently we are making the REF2021 tool available free of charge.

Whilst we have gratefully benefited from input from colleagues at Research England, we must emphasise that this initiative is completely independent both of Research England and of the REF process itself. Furthermore, the data in the screen shots shown in this guidance document represent test data created by Elsevier not actual data from the REF2021. Likewise, the screen shots are from our test system and these may have changed between the production of this document and the system go-live date.

Finally, we wish you all the very best in terms of your REF outcomes and hope that you find our tool a helpful addition as you analyse your results.

Accessing the Tool

1. How do I login?

The REF2021Results Analysis Tool is available at:

https://ref2021tool.analytics.elsevier.com/

As a registered university administrator your e-mail address will be used as the username and is the identifier by which we control access to the system.

The standard process for initially logging-in is for Elsevier or the already established university administrator to create an account using your e-mail address. You will then receive an e-mail which will prompt you to set your own password.

As an exceptions process, we do have a facility whereby administrators can create a password (again using your e-mail as identifier). In those circumstance you should immediately change your initial password, as per the guidance at (4) below.

2. What browsers can I use?

The REF2021 Results Analysis Tool operates with Chrome, Microsoft Edge, Safari and Firefox. We recommend that users do not use Internet Explorer, and the tool will not function at all on any version below IE 11.

Uploading data (Admin users only)

3. How do I upload data files into the Tool?

Go to Settings > Manage data uploads:

REF2021 Results Analysis	🖀 Home	Overall Results - Output Results -			🖋 Settings 👻	? Support -		
To get started, download the user guide PDF	🛔 Attila Emecz							
Overall results)utput Results	Impact Results	En	Ref2021-Else				
Overall I: Institutional results	C	Dutputs I: Institutional results		Impact I: Institutional results	En	v 🔺 Logout		
Overall II: Institutional benchmarking	c	Dutputs II: Institutional benchmarking		Impact II: Institutional benchmarking	En	 Update profile Manage acc 	e ount	g
Overall III: Benchmarking of UoA submissions	Outputs III: Benchmarking of UoA submissions	hmarking of UoA submissions Impact III: Benchmarking of UoA submissions			v 🖋 Update weigt	ntings	bmissions	
Overall IV: UoA results Outputs IV: UoA results Impact IV: UoA results				Impact IV: UoA results	En	Manage com	parator groups uploads	

Select **upload** for the file you would like to upload. The options are:

- Institution results
- Comparative data
- Sector results

Uploading both the Sector Results file and the Comparative Data file are needed for the full functionality to be available. It is not strictly necessary to load your own Institution Results file for the system to work. The Sector Results file will have that information and the system will default to that.

The option to upload a specific Institution Results file is provided purely to enable users to begin using the system in line with the way Research England will release the results i.e. individual Institution Results will be released to institutions ahead of the general sector results.

NOTE: We have based the upload functionality on the dummy data files that research England provided. The uploaded files must be EXACTLY as supplied by Research England, with no alterations (e.g. rows removed, columns added). Otherwise, the calculations within the Tool will not function accurately.

Specifically, the files must have the same worksheets and columns as the Research England files and also the data should start on the same rows as the Research England files.

Select Browse and locate the file you wish to upload:

	Overall Results	1
	Uploading 'institution results'. The excel file should be uploaded *exactly* as supplied by Research England, with no alterations (otherwise, the calculations will not perform accurately).	
O	Choose file No file chosen	n 0
ato	Save file Close	0

Then select Save file. **WAIT** until you receive the message that the file has been successfully uploaded before closing the window (this can take some time, depending on the size of the file and traffic on the site).



Once uploaded, a file can be overwritten. Uploaded files can also be downloaded.

Creating users (Admin users only)

4. How do I create other users?

Go to Settings > Manage account:

REF2021 Results Analysis	Home Overall Results • Output Results • Impact Results • Environment Results • P Settings • <th< th=""></th<>												
To get started, download the user guide PDF							🛔 Attila Emecz						
Overall results	C	Jutput Results	Impact Results			Env	🏛 Ref2021-Elsev	ier-test					
Overall I: Institutional results	C	Dutputs I: Institutional results		Impact I: Institutional results	E	Env 🔺 Logout							
Overall II: Institutional benchmarking	c	Dutputs II: Institutional benchmarking		Impact II: Institutional benchmarking	E	Env Update profile			9				
Overall III: Benchmarking of UoA submissions	c	Outputs III: Benchmarking of UoA submissions		Impact III: Benchmarking of UoA submissions			🖋 Update weigh	tings	Ibmissions				
Overall IV: UoA results	C	Dutputs IV: UoA results		Impact IV: UoA results	E	Env	击 Manage com 🏝 Manage data	oarator groups uploads					

Go to **Add user** in the top right-hand corner, then provide the details requested. The default process is to set the user as Account User (this is the standard user role in the system). The alternative is to set as "Account Admin". The default process also send an e-mail to that user so they can set their own password. This is our recommended method for providing users with access.

Add user	х
This form allows you to add/edit a user belonging to this account	
First name: Last name: Email:	
Access level Account user v Send email letting user set a password	
	Close Submit

There are occasions where an administrator may need to generate a password for a user. If you uncheck the box entitled "send email letting user set a password" a further field appears allowing you to create such a password. The administrator can inform the use of the password and the user can then use that to log on but the user should also be advised to change the password immediately following first login).

The following table summarises access level permissions.

Access Level	Access Level Permissions							
Account user	View all screens							
	Edit own login details							
Account Administrator	View all screens							
	Edit own login details:							
	Create and edit other local users							
	 Upload and override data uploads, and download raw results files 							
	Edit weightings and thresholds							
	 Create and edit comparator groups 							

Change your account details (All Users)

5. How do I change my password?

Go to Settings > Update profile:

REF2021 Results Analysis	S Analysis & Home Overall Results - Output Results - Impact Results - Environment Results - P Settings - ? Sup												
To get started, download the user guide PDF				🛎 Attila Emecz									
Overall results	Output Results	Impact Results	Env	nv 🏦 Ref2021-Elsevier-test									
Overall I: Institutional results	Outputs I: Institutional results	Impact I: Institutional results	Env	▲ Logout									
Overall II: Institutional benchmarking	Outputs II: Institutional benchmarking	Impact II: Institutional benchmarking	Env	Update profile Manage account	t	9							
Overall III: Benchmarking of UoA submissions	Outputs III: Benchmarking of UoA submissions	Impact III: Benchmarking of UoA submissions	Env	🖋 Update weighting	js	Ibmissions							
Overall IV: UoA results	Outputs IV: UoA results	Impact IV: UoA results	Env	击 Manage compara 🏝 Manage data uplo	ator groups loads								

Update your user details as required. To make any change you will have to enter your current password and then press submit.

So to change your password, complete the "new password" field and then also enter your current password in the relevant field. Then click **Submit**. When entering passwords the system shows these in standard text and not as hidden characters.

6. How do I change other account details (e.g. my email, my name)?

Follow the steps above in (5) i.e. make the change required, enter current password and click **Submit.**

Metrics, calculations, and rankings

7. What metrics does the Tool use?

The table below shows the metrics the system generates, how they are derived and where they are used. For some metrics, university administrators have the option of changing the calculation parameters. We show the default parameters in the following table.

					Profile								
		Measures	Exemplar	Notes/ Calculation	Overall	Outputs	Impact	Env					
		% 4*	23	Taken directly from REF Data	\checkmark	\checkmark	\checkmark	\checkmark					
		% 4* / 3*	56	Simple addition using REF Data	\checkmark	\checkmark	\checkmark	\checkmark					
	uality	GPA	3.05	((% at 4* x 4) + (% at 3* x 3) +(% at 2* x 2) + (% at 1* x 1))/100	\checkmark	\checkmark	\checkmark	~					
		Quality Index	56	[(% at 4* x 16) + (% at 3* x 9) + (% at 2* x 4) + (% at 1* x 1)] / 16	\checkmark	\checkmark	\checkmark	\checkmark					
-	a	FTE 4*	11.50	Cat A staff x % at 4*	\checkmark								
	noine	FTE 4* / 3*	28.00	(Cat A staff x % at 4*) + (Cat A staff y % at 3*)	\checkmark								
ć	202	Power	0.76	[(QI x Cat A FTE submitted) = weight] / largest weight	\checkmark								
		Cat A FTE	50.00	Taken directly from REF Data	\checkmark								
		# Submissions	17	Taken directly from REF Data	\checkmark								
		# Multi Submissions	1	Derived from REF data									
	-	# Joint Submissions	2	Derived from REF data									
1/-1	volume	Proportion of staff submitted	83%	- Taken directly from REF Data [% of Eligible Staff Submitted]	\checkmark								
		# case studies	6	Determined by Cat A FTE			\checkmark						
	lare	Cat A FTE	0.79%	Calculated from individual organisation's values expressed as a % against comparator group	\checkmark								
TO TOP	arket Share Volume	4* FTE	25.30%	As above	\checkmark								
	INIAI	4* / 3* FTE	7.36%	As above	\checkmark								

The Tool also calculates, for each institution, the number and the proportion of submissions where (as the default selections):

- GPA ≥ 3.00
- Proportion of activity at $4^* / 3^* \ge 50\%$

These measures are available in the **Institutional results and rankings** table in the Overall II, Outputs II, Impact II, and Environment II screens:

Overall	institution	al re	sults and	d ran	kings																					
elect C	omparator	group	2																							
UK						-																				
verall re	sults for all su	ubmitt	ing HEIs wi	ithin th	ne sele	cted ci	ompar	ator gro	up, using	y weighte	d aver	ages (se	e Home	screen fo	r definitio	n) when	ever releva	ant. Each co	lumn can	be select	ed in orde	r to pres	ent the recu	Its in the s	locited ran	kordar
Rank	HEI		Cat A FTE	4.	3*	2*	1.	U/C	4*/3*	GPA	QI	4º FTE	3ª FTE	2ª FTE	1º FTE	U/C FTE	4*/3* FTE	Power	Prop Staff Sub	g Subs	g Mult Subs	# Joint Subs	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1			2,245.83	32	39	24	5	1	70	2.96	60	713.19	866.67	540.57	111.80	13.60	1,579.86	1.00	•	50	3		22	44.00 %	49	98.00 %
2			2,040.39	32	39	24	4	1	71	2.98	60	653.04	799.07	488.26	84.38	15.63	1,452.11	0.92		50	4		27	54.00 %	49	98.00 %
3		je .	1,792.68	27	39	27	6	1	66	2.84	56	476.29	702.98	484.91	113.86	14.65	1,179.26	0.74		49	3	-	9	18.37 %	43	87.76 %
4			1,824.34	23	42	29	6	0	65	2.82	54	421.31	772.45	520.15	107.44	2.98	1,193.76	0.74		53	0		13	24.53 %	49	92.45 %
5			1,639.81	22	40	28	8	2	63	2.75	53	368.91	660.17	462.60	123.41	24.71	1,029.08	0.64		39	0		4	10.26 %	33	84.62 %
6			1,224.57	26	47	23	4	0	73	2.94	58	316.04	577.22	276.24	55.08	0.00	893.25	0.53	-	22	2		10	45.45 %	22	100.00
7			1,388.47	18	40	34	7	1	58	2.67	50	250.92	557.71	466.81	102.99	10.05	808.63	0.51		47	0		9	19.15 %	33	70.21 %

Note that University Administrators can change the defaults e.g. to show Proportion of activity at, say, $4^*/3^* \ge 70\%$ instead of the default 50%

8. How is the Power metric calculated?

Power is a metric that is calculated with reference to other values in the comparator set. The value for an organisation is calculated by dividing by the highest value in that set, hence the maximum value for power is 1. The table below illustrates the calculation

HEI	Category A FTE	QI	Weighting (Cat A FTE x	Power (weighting/max weighting)
	00.00	74		weighting
University A	98.83	74	7313.42	0.17
University B	32.5	79	2567.5	0.06
University C	103.09	75	7731.75	0.18
University D	573.73	73	41882.29	1.00

9. What calculations and rankings are available?

Detailed descriptions of each screen are available in **Appendix 1**.

10. Why do submissions that appear to have the same value for a selected measure have different ranks?

Many values have been subject to rounding. As the rank order displayed is based on the actual figures, you may see situations where the results appear to be equal, but they have different rank orders.

11. How are the results sorted when two institutions have the same value for the selected measure?

When sorting the table and there are 'ties' in the selected value (i.e. >1 institution with the same value), the results are displayed first by the value in question, then in descending order: 4^* , 3^* , 2^* , 1^* , U/C.

12. What is the 'weighted average'?

Weighted averages are averages that reflect the FTE numbers concerned. We use these both when taking an individual institution perspective (looking at UoAs within an institution) or when taking a UoA perspective (i.e. looking at institutions within a UoA). They are calculated by multiplying the percentage at each quality level for a UoA or institution by the number of staff submitted in that UoA or institution. This provides an FTE weighted value for each UoA or institution. For each quality level, the weighted values are then summed over the UoA or institution to give a weighted grade total. The weighted grade total is then divided by the total FTE for the UoA or institution to give the average.

For example, if we take the 4* grade distribution for an institution with 3 UoAs then the calculation is as follows:

UoA	FTE	4*	Weighted 4*
Physics	27	40	1080
Mathematical Sciences	28	20	560
Computer Sciences	19	30	570
Total	74		2210

Average weighted 4* = 2210/74 = 29.86

Changing weightings and thresholds (Admin users only)

13. How do I change the weightings and thresholds (e.g. change the weighting given to 4* activity in the GPA calculation)?

Admin users can edit the weightings applied to the GPA and QI metrics, and can update the value for calculating the number and proportion of submissions above a particular threshold for GPA and proportion of activity at $4^*/3^*$.

Go to Settings > Update weightings:

REF2021 Results Analysis	🖀 Home	🖋 Settings 🕶	? Support -							
To get started, download the user guide PDF								🛔 Attila Emecz		
Overall results	C	Output Results			Impact Results			m Ref2021-Elsevi	er-test	
Overall I: Institutional results	C	Outputs I: Institutional res	sults		Impact I: Institutional results			▲ Logout		
Overall II: Institutional benchmarking	C	Outputs II: Institutional benchmarking			Impact II: Institutional benchmarking	E	Env			9
Overall III: Benchmarking of UoA submissions	c	Outputs III: Benchmarking of UoA submissions			Impact III: Benchmarking of UoA submissions		inv	V PUpdate weightings		Ibmissions
Overall IV: UoA results	C	Outputs IV: UoA results			Impact IV: UoA results	E	inv	🛦 Manage comp 🏝 Manage data	oarator groups uploads	

Edit the weightings / thresholds as desired, and then click **Submit**. Once you edit the weightings / thresholds, these will be applied across your institution's account, for all users. Users are notified via the following means:

• Home screen:

In example below the GPA weights for 4* and 3* have been changed to 5 and 4 (the defaults are 4 and 3 respectively). The QI weights for 4* and 3* have also been independently changed to 25 and 16 (the defaults are 16 and 9 respectively).

REF2021 Results Analysis	# Home	Overall Results -	Output Results +	Impact Results +	Environment Result	S +		🖋 Settings 👻	? Support +
To get started, download the user guide PDF									
Overall results		Output Results			Impact Result	ts	Environment Results		
Overall I: Institutional results		Outputs I: Institut	ional results		Impact I: Institu	utional results	Environment I: Institutional resu	Its	
Overall II: Institutional benchmarking		Outputs II: Institut	tional benchmarking		Impact II: Instit	lutional benchmarking	Environment II: Institutional ben	chmarking	
Overall III: Benchmarking of UoA submissions		Outputs III: Bencl	hmarking of UoA sub	missions	Impact III: Ben	chmarking of UoA submissions	Environment III: Benchmarking	of UoA submissio	ns
Overall IV: UoA results		Outputs IV: UoA r	results		Impact IV: UoA	A results	Environment IV: UoA results		

Summary of Calo	culations	
GPA	Grade Point Average	$((\% \text{ of activity at } 4^* \times 4) + (\% \text{ of activity at } 3^* \times 3) + (\% \text{ of activity at } 2^* \times 2) + (\% \text{ of activity at } 1^* \times 1))/100$
QI	Quality Index	$[(\% of activity at 4* \times 16)+(\% of activity at 3* \times 9)+(\% of activity at 2* \times 4)+(\% of activity at 1* \times 1)]/16$
Power	Power Measure	[(QI x Cat A FTE submitted)=weight]/largest weight

Weighted averages are calculated by multiplying the percentage at each quality level for a UoA or institution by the number of staff submitted in that UoA or institution. This gives notional volumes of research activity at each quality level for each UoA / institution. These volumes are then summed for the UoA / institution as a whole, and then expressed as a percentage of total research activity within that UoA / institution. By doing this, we take the size of individual submissions into account when calculating a weighted average quality profile. These average quality profiles may not sum to 100 per cent due to rounding.

Joint Submissions are shown split by their constituent institutions. This tool does not offer the functionality to view Joint submission performance as a single submission

Weightings

i cigitunga					
Measure	4*	3*	2*	1*	U/C
GPA	4	3	2	1	0
QI	16	9	4	1	0

• The Applied Weightings & Thresholds drop down on each screen:

Colour Legend	holds -	Thres	tings 8	Weigh	Applied	1												Its	esu	tional R	Overall I: Institu
					gs	Weighting												•			Select HEI
	U/C	1*	2*	3*	4*	Measure															
	0.00	1.00	2.00	4.00	5.00	GPA												ults	resu	of Overal	Institutional summar
	0	1	4	16	25	QI	een f	Home scr	rages (see	ighted ave	means), we	metic r	ges (arith	the avera	showing	esults, s	2021 re	I REF2	Overal	elected HEI's	Institutional summary of the
											1									Concernance of the second s	
Prop Staff Sub					ds	Threshold	U/C FTE	1* FTE	2* FTE	3* FTE	4* FTE	QI	GPA	4*/3*	U/C	1*	2*	3*	4*	Cat A FTE	University of Surrey Summary
Prop Staff Sub	50	/ >=	f activity	ortion o	ds I for Prop	Threshold Threshold at 4*/3*	U/C FTE	1* FTE 0.54	2* FTE 6.10	3* FTE 17.24	4* FTE 6.66	QI 57	GPA 3.59	4*/3* 71	U/C 0	1* 3	2* 25	3* 51	4 * 21	Cat A FTE 30.58	University of Surrey Summary Averages
Prop Staff Sub - 74.93 - 73.88	50 3	>=	f activity	ortion o	ds I for Prop I for GPA	Threshold Threshold at 4*/3*	U/C FTE	1* FTE 0.54	2* FTE 6.10	3* FTE 17.24	4* FTE 6.66	QI 57 61	GPA 3.59 3.76	4*/3* 71 78	U/C 0	1* 3 2	2* 25 20	3* 51 56	4 * 21 22	Cat A FTE 30.58	University of Surrey Summary Averages Weighted Averages

• If downloaded, the weightings / thresholds applied will be stated

To revert back to the defaults, simply return to the Update weightings screen and input the default weightings (which are reproduced at the bottom of the screen), and click **Submit**.

Comparator Groups

14. What comparator groups are available in the Tool?

The following comparator groups are available in the Tool as standard. These are not editable.

Regions

•

•

- England
- o Northern Ireland
- \circ Scotland
- \circ Wales
- o UK (the system default)
- Mission Groups
- Cathedral Group
- Guild HE
- Million+
- Russell Group
- UKADIA
- o University Alliance
- English Regions
 - o London
 - o East Midlands
 - $\circ \quad \text{East of England} \quad$
- North East
- o North West
- o South East
- o South West
- o West Midlands
- Yorkshire & the Humber
- KEF Clusters

- KEF STEM
- KEF E
- KEF ArtsKEF M
- KEF M
- KEF J
- KEF V
- Pre/Post 92
 - Pre 92
 - o Post 92

15. How do I create additional comparator groups? (Admin users only)

Go to Settings > Manage comparator groups:

Home Overall Results - Output Results -	 Impact Results Environment Results Environment Results 	🖋 Settings 👻	? Support -
		Attila Emecz	
Output Results	Impact Results	n Ref2021-Elsevier-test	
Outputs I: Institutional results	Impact I: Institutional results	▲ Logout	
Outputs II: Institutional benchmarking	Impact II: Institutional benchmarking	Update profile Manage account	narking
Outputs III: Benchmarking of UoA submissions	Impact III: Benchmarking of UoA submissions	& Update weightings	JoA
Outpute IV/: LieA results	Impact IV/: LIAA requite	🛔 Manage comparator groups	
Outputs IV. OOA results	impact iv. OoA results	1 Manage data uploads	
	Home Overall Results Output Results Outputs I: Institutional results Outputs II: Institutional benchmarking Outputs III: Benchmarking of UoA submissions Outputs IV: UoA results	Home Overall Results Output Results Impact Results Environment Results Output Results Impact Results Impact Results Outputs I: Institutional results Impact I: Institutional results Outputs II: Institutional benchmarking Impact II: Institutional benchmarking Outputs II: Benchmarking of UoA submissions Impact III: Benchmarking of UoA submissions Outputs IV: UoA results Impact IV: UoA results	Impact Results ← Impact Results ← Environment Results ← Impact Results ← Output Results Impact Results Impact Results Impact Results Outputs I: Institutional results Impact I: Institutional results Impact I: Institutional results Outputs II: Institutional penchmarking Impact II: Institutional penchmarking Impact II: Outputs II: Eenchmarking of UoA submissions Outputs IV: UoA results Impact IV: UoA results Impact IV: UoA results

Go to **Add comparator group** in the top right-hand corner. First provide a name for the comparator group, and select the institutions to add to the group. To select more than one at a time, hold down either the Shift or Ctrl keys (depending on the nature of your selection), and click on each HEI you wish to add to the group. Then select **add**.

-Suits -	Inipoet (Cours - Chynoninent (Cours -	х	
	Add comparator group		
	This form allows you to add/edit a group belonging to this account.		
	group name:		
	select from available institutions to add to your group		
10:08	10007856:Aberystwyth University 10000291:Angila Ruskin University 10007250:Aten University	-	
	10007557:Bangor University 10007571:Bath Spa University		
	10007760:Birkbeck College 10007140:Birmingham City University 100078111:Bishop Grosseteste University		
	10000824 Bournemouth University 10007797 British Institute in Paris		
ce	10000961:Brunel University 10000975:Buckinghamshire New University 10001143:Canterbury Christ Church University		
	10007854:Cardiff Metropolitan University 100078-4:Cardiff University	*	
	add		
	select from your group below to remove institution		
	- remove		
	Close	ubmit	

If it is a large group, you may wish to select all HEIs, then **remove** those you do not want to include in the group.



Click **Submit** once you have finalised your selections.

Once you create / edit local comparator groups, these will be available for selection across your institution's account, for all users.

UK	-																			
Northern Ireland Mission Groups Russell Group University Alliance Million+		Multiple Submission	Joint Submission	Cat A FTE	4*	3.	2*	P.	uc	4*/3*	GPA-	QI	4°ETE	3ºFTE	2"FTE	1*FTE	UIC FTE	4*0* FTE	Power	Prop Staff Sub
CMU Guild HE	ang	1		150.00	45	45	10	0	0	90	1.85	73	67.50	67.50	15.00	0.00	0.00	135.00	1.00	0.90
UKADA English Regions				85.40	26	60	15				1.20	63	21.35	61.74	12.01	0.00	0.00	72.60	0.49	0.00
South East	1 mg			40.40							1.20		21.25	5124	12.01	0.00	0.00	16.00	0.45	0.00
East of England	king	1		16.00	25	50	25	0	0	75	1.28	59	4.00	8.00	4.00	0.00	0.00	12.00	0.09	0.00
East Midlands North West	a ing	2		67.70	25	47	27	2	0	72	1,24	58	16.93	31.61	18.03	1.14	0.00	48.53	0.36	0.00
Yorkshire and the Humber	ing	1		48.00	20	60	20	0	0	80	1.22	59	9.60	28.80	9.60	0.00	0.00	38.40	0.26	0.00
West Midlands North East	pring	1		52.16	20	50	30	0	0	70	1.12	56	10.43	26.08	15.65	0.00	0.00	36.51	0.27	0.00
Others Wates Test 1	- ning	1		69.45	20	50	25	5	0	70	1.12	55	13.89	34.73	17.36	3.47	0.00	48.62	0.35	0.00
8 Destances I Interests	15 Canaral Engineering	4		10.00			- 10			80	4.05		3.70	** 70	240	0.00	0.00	14.40	0.00	0.00

Exporting content

16. How do I download content from the Tool?

Below each table within each screen, there is a button to Export Table data into Excel.

verall I: Instit	utional R	esul	ts												Appli	ed Weighti	ings & Thre	sholds -	Col	lour Legend
lect HEI		×	¢																	
stitutional summa	ry of Overal	resu	lts	0.0.4							take da									
stitutional summa ititutional summary of the	e selected HEI's	l resu Overall	Its REF2	021 re:	sults, s	howing t	the avera	ges (arith	metic n	neans), we	eighted ave	rages (see	Home scr	een for defir	nition), and to	otal values.	a Musir	# loint		Drop Staff
stitutional summa stitutional summary of the Jniversity of Surrey Summary	e selected HEI's Cat A FTE	Overall	Its REF2 3*	2°	sults, s 1*	howing t	the avera	ges (arith GPA	metic n QI	neans), we 4* FTE	aighted ave 3* FTE	rages (see 2* FTE	Home scr 1* FTE	een for defir U/C FTE	hition), and to 4°/3° FTE	atal values. # Subs	# Mult Subs	₩ Joint Subs		Prop Staff Sub
stitutional summa titutional summary of the Iniversity of Surrey ummary verages	Cat A FTE 30.58	Overall 4* 21	Ilts REF2 3*	2* 25	sults, s 1* 3	howing t U/C 0	the avera 4*/3* 71	ges (arith GPA 2.88	QI 56	4* FTE 6.66	3* FTE 17.24	rages (see 2* FTE 6.10	Home scr fr FTE 0.54	een for defir U/C FTE 0.04	4*/3* FTE 23.90	stal values. U Subs	# Mult Subs	# Joint Subs		Prop Staff Sub 74.93
Stitutional summa titutional summary of the Iniversity of Surrey ummary verages feighted Averages	Cat A FTE 30.58	Overall 4* 21 22	Ilts REF2 3* 51 56	021 ret 2* 25 20	sults, s 1* 3 2	howing t U/C 0	4*/3* 71 78	ges (arith GPA 2.88 2.98	QI 56 59	neans), we 4* FTE 6.66	3* FTE 17.24	rages (see 2" FTE 6.10	Home scr 1* FTE 0.54	een for defir U/C FTE 0.04	A*/3* FTE 23.90	Subs	# Mult Subs	# Joint Subs		Prop Staff Sub 74.93 73.85

Joint Submissions

17. How are Joint Submissions reported?

Joint Submissions are displayed and ranked as separate submissions (but are identified as Joint Submissions – along with name(s) of partner(s)) (as presented in the raw results). Joint Submissions have the same grade distributions for each institution. In addition, the proportion of staff submitted is now given as a single value and is displayed for each institution. The Category A FTEs are still available separately for each institution and these are the values that the REF2021 uses as a default view.

We are aware that the Research England data does now also give a combined value FTE value for the joint submission as a whole. However, the tool does not yet offer the facility to merge joint submissions into a single submission to enable analysis of the joint submission's performance in the UoA as a whole. This is under consideration.

Multiple Submissions

18. How are Multiple Submissions reported?

Multiple Submissions are default displayed and ranked as separate submissions (as presented in the raw results). The Tool offers the facility to combine Multiple Submissions to enable analysis of the HEI's performance in the UoA as a whole. Furtherdetail is available in **Appendix 1**.

Small Submissions

19. How are small submissions reported?

Sub-profiles (Outputs, Impact, and Environment) for any submission whose headcount of submitted staff is three or fewer have not been published.

As such, the results for small submissions are not included in any of the results presented in the Tool.

If your institution made any such small submission, you will be able to see the results in the **Outputs / Impact / Environment I** screens, and in the **Outputs / Impact / Environment III : Quartiles** screens.

Support arrangements

20. How can I get help with the Tool?

In the first instance, please contact your local Administrator. Otherwise, contact the dedicated REF2021 Elsevier helpdesk at: ref2021@elsevier.com

Further support (in the form of FAQs, known issues, and the training video) is available from the **Support** tab in the top right-hand corner of the screen.

REF2021 Results Analysis	# Home	Overall Results +	Output Results +	Impact Results +	Environment Results	▪ ≁ Sett	ings 🕶	? Support +
Overall I: Institutional Results	5					Applied Weightings & Thresholds -	Cor Use FAC	ntact er Guide PDF 2 own Issues

Appendix 1: Screens

Data in screen shots is Elsevier created test data and not actual data associated with REF 2021

a. Overall I: Institutional Results

For the initial day's release, Research England will provide only your own HEI's results. Once your administrator has uploaded them they will be available on this screen. All otherHEIs will be available upon upload of the sector results (released by Research England a day or so later).

Institutional summary of Overall results

Institutional summary of the selected HEI's Overall REF2021 results, showing the averages (arithmetic means), weighted averages, and total values.

					-						0								
REF2021 Resu	lts Anal	ysis	*	• Hom	e	Overall	Results	• OL	itput R	tesults 🕶	Impact	Results •	Envi	ironment R	esults 👻			🖋 Settings 🗸	? Support
Overall I: Instit	utional R	esu	Its												Appl	ied Weight	ings & Thresh	olds - C	olour Legend -
elect HEI																			
		,	¢																
etitutional cumma	ny of Overal	Iroci	ilte																
stitutional summary of the	e selected HEI's	Overal	I REF2	2021 re	sults, s	showing	the avera	ges (arith	metic	means), w	eighted ave	rages (see	Home scr	reen for defi	nition), and to	otal values.			
University of Surrey	Cat A									4*	3*	2*	1*	U/C	4*/3*	#	# Mult	# Joint	Prop Staff
Summary	FTE	4*	3.	2"	1"	U/C	4*/3*	GPA	QI	FTE	FTE	FTE	FTE	FTE	FTE	Subs	Subs	Subs	Sub
Averages	30.58	21	51	25	3	0	71	2.88	56	6.66	17.24	6.10	0.54	0.04	23.90		-		74.939
Weighted Averages		22	56	20	2	0	78	2.98	59										73.889
Totals	458.76								-	99.93	258.62	91.45	8.16	0.59	358.56	15	0	(
																		LE Export Tat	e data into E

Overall results: Submitted UoA(s)

Overall results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order.

Overall results: Submitted UoA(s)

Overall results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order.

Rank	UoA	Multiple Submission	Joint Submission	Cat A = FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4*≑ FTE	3*≑ FTE	2*÷ FTE	1*≑ FTE	U/C ÷ FTE	4*/3*⇔ FTE	Prop = Staff Sub
1	03: Allied Health Professions, Dentistry, Nursing and Pharmacy			64.60	44	49	7	0	0	93	3.37	73	28.42	31.65	4.52	0.00	0.00	60.08	62.12 %
2	04: Psychology, Psychiatry and Neuroscience			20.00	19	52	26	2	1	71	2.86	55	3.80	10.40	5.20	0.40	0.20	14.20	60.61 %
3	09: Physics			27.50	25	59	16	0	0	84	3.09	62	6.88	16.22	4.40	0.00	0.00	23.10	88.71 %
4	10: Mathematical Sciences			28.42	14	61	25	0	0	75	2.89	55	3.98	17.34	7.11	0.00	0.00	21.32	91.68 %
5	11: Computer Science and Informatics			19.40	11	49	38	0	2	60	2.67	48	2.13	9.51	7.37	0.00	0.39	11.64	92.38 %
6	12: Engineering			54.95	18	62	20	0	0	80	2.98	58	9.89	34.07	10.99	0.00	0.00	43.96	79.64 %
7	16: Economics and Econometrics			20.65	19	63	18	0	0	82	3.01	59	3.92	13.01	3.72	0.00	0.00	16.93	82.60 %
8	17: Business and Management Studies			41.65	11	51	34	4	0	62	2.69	48	4.58	21.24	14.16	1.67	0.00	25.82	56.28 %
9	18: Law			8.00	9	40	47	4	0	49	2.54	44	0.72	3.20	3.76	0.32	0.00	3.92	38.10 %
10	19: Politics and International Studies			11.40	10	16	46	28	0	26	2.08	32	1.14	1.82	5.24	3.19	0.00	2.96	81.43 %

b. Overall II: Institutional Benchmarking

This screen is only available following upload of the sector results.

Summary of Overall institutional benchmarking and market share

Institutional summary of the selected HEI's Overall REF2021 results, rankings, and market share, using weighted averages (see Home screen for definition) wherever relevant. Rankings within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs.

	Analysis	# Home	Overa	II Results	-	Output Re	esults + I	npact Res	ults - Env	/ironment F	tesults 🕶		F Settings	? Support
Overall II: Institutio	onal benchr	narkin	g								Applied We	eightings & Threst	holds - C	olour Legend 🕶
Select HEI														
	×													
Summary of Overall Inst	itutional bench	marking	and ma	rket sh	are									
istitutional summary of the select	ted HEI's Overall RE	F2021 res	ults, benchn	narking, a	nd mar	ket share, u	using weighted	averages (see Home scre	en for defini	tion) wherever relev	ant. Rank within ea	ach comparator	group are
isplayed for each measure, as is	market share. The o	comparator	groups disp	played are	all tho	se to which	the selected H	El belongs						
	# HEIs	% 4*	% 4*/3*	GPA	QI	4* FTE	4*/3* FTE	Power	Cat A FTE	# Subs	Prop Staff Sub	Cat A FTE MS	4* FTE MS	4*/3* FTE MS
Values		23	75	2.96	58	87.46	281.24	0.12	375.62	14	71.28%	375.62	87.46	281.24
Values		23	75	2.96	58	87.46	281.24	0.12	375.62	14	71.28%	375.62	87.46	281.24
Values	119	23	75	2.96	58 46	87.46	281.24	0.12	375.62 33	14	71.28%	375.62	87.46	281.24
Values England KEF X	119 20	23 49 15	75 41 13	2.96 45 14	58 46 14	87.46 34 16	281.24 33 15	0.12	375.62 33 15	14 43 16	71.28%	375.62 0.92% 3.82%	87.46 0.70% 3.12%	281.24 0.92% 3.72%
Values England KEF X Pre 92	119 20 70	23 49 15 58	75 41 13 50	2.96 45 14 54	58 46 14 55	87.46 34 16 45	281.24 33 15 44	0.12 33 15 43	375.62 33 15 42	14 43 16 43	71.28% 45 18 50	375.62 0.92% 3.82% 0.92%	87.46 0.70% 3.12% 0.63%	281.24 0.92% 3.72% 0.85%
Values England KEF X Pre 92 South East	119 20 70 17	23 49 15 58 8	75 41 13 50 6	2.96 45 14 54 6	58 46 14 55 6	87.46 34 16 45 7	281.24 33 15 44 8	0.12 33 15 43 8	375.62 33 15 42 8	14 43 16 43 9	71.28% 45 18 50 7	375.62 0.92% 3.82% 0.92% 5.05%	87.46 0.70% 3.12% 0.63% 3.64%	281 24 0.92% 3.72% 0.85% 4.87%
Values England KEF X Pre 92 South East Atti Test 1	119 20 70 17 7	23 49 15 58 8	75 41 13 50 6	2.96 45 14 54 6	58 46 14 55 6	87.46 34 16 45 7	281.24 33 15 44 8	0.12 33 15 43 8	375.62 33 15 42 8	14 43 16 43 9	71.28% 45 18 50 7	375.62 0.92% 3.82% 0.92% 5.05% 0.00%	87.46 0.70% 3.12% 0.63% 3.64% 0.00%	281.24 0.92% 3.72% 0.85% 4.87% 0.00%

The figures shown for the row entitled "Values" are those associated with the selected institution.

The figures shown for the various comparator groups show the number of institutions in each comparator groups and then the position that the selected institution ranks within that comparator group for the heading. For example, this institution has 23% 4* papers which was the 66th highest in the UK, similarly the power score for the institution was 0.12 which was 8th in the South East of England.

The Market Share values (in brown with MS) show the actual values for the selected institution and then express these as a proportion of the total for the comparator groups. The total values for the comparator groups are not shown in the table.

Overall institutional results and benchmarking

Overall results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order.

In the following table, the institutions are ranked in order of descending FTE. There is a marker in the top right of the column heading showing it is the current column being used to order.

REF2021 Results Analysis # Home Overall Results • Output Results • Impact Results • Environment Results •

Overall institutional results and benchmarking Select Comparator group

UK verall results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order.

Rank	неі	Cat A FTE	4*	3"	2"	1*	uic	4*/3*	GPA	a	4° FTE	3ª FTE	2' FTE	1º FTE	U/C FTE	4"/3" FTE	Power	Prop Staff Sub	# Subs	# Mult Subs	# Joint Subs	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1		316.79	22	45	28	4	1	67	2.84	55	69.66	143.89	89.55	11.23	2.46	213.55	0.10	79.20 %	17	2	2	4	23.53 %	12	70.59 %
2		168.36	7	38	41	12	2	45	2.37	39	12.10	63.40	69.75	20.10	3.00	75.51	0.04	32,95 %	15	0	0	0	0.00 %	5	33.33 %
3		12.10	7	36	38	18	1	43	2.30	38	0.85	4.36	4.60	2.18	0.12	5.20	0.00	12.60 %	1	0	0	0	0.00 %	0	0.00 %
4		175.43	31	49	19	1	0	79	3.08	63	53.59	85.23	33.53	2.52	0.57	138.81	0.06	57.52 %	6	0	0	3	50.00 %	6	100.00 %
5		220.35	26	52	19	3	1	77	3.00	60	57.07	113.61	42.79	5.68	1.19	170.68	0.07	67.59 %	13	0	3	8	61.54 %	12	92.31 %
6		74.02	13	40	34	11	2	53	2.52	45	9.72	29.59	25.42	8.12	1,17	39.31	0.02	38.55 %	6	0	0	0	0.00 %	3	50.00 %
7		327.76	27	46	23	3	0	73	2.97	59	89.68	149.92	76.70	10.02	1.44	239.59	0.11	83.40 %	14	0	2	5	35.71 %	13	92.86 %
8		121.91	16	44	30	8	1	60	2.64	49	19.16	53.69	37.17	10.35	1.54	72.85	0.03	16.49 %	11	0	0	0	0.00 %	6	54.55 %
9		11.00	6	18	46	27	4	24	1.96	29	0.70	1.94	5.02	2.95	0.39	2.64	0.00	17.18 %	3	0	0	0	0.00 %	0	0.00 %

[✤] Settings • ? Support •

c. Overall III: Benchmarking summary of UoA submissions

Summary of UoA submissions: Quartiles

Initially only your own HEI's results may be available on this screen as Research England will release these first and your administrator may have uploaded these and provided access. All other HEIs will be available upon release of the wider sector results.

The results on this screen compare the selected HEI's **Overall** results against the comparative quartiles data provided and published by Research England (which are only available UK-wide, therefore no comparator group selection is available).

Where a value falls exactly on thepoint that divides one quartile from the next, the Tool puts this value into the quartile above. For example, if the median value is 45 and the selected HEI's value is 45, the Tool states the result as Q3. Note that Q1 = Lower Quartile and Q4 = Upper Quartile.

An example screen is shown below with some guidance on interpretation.

REF2021 Results Analysis # Home Overall Ret	sults • Outpu	t Results +	Impact Results •	Environmer	nt Results -		F	Settings 👻	? Support -
Overall III: Benchmarking summary of UoA su	ubmission	5				A	pplied Weightings & Thresholds	• Co	olour Legend +
Benchmarking Quartiles									
Select HEI									
×									
Summary of UoA submissions Quartiles									
The results on this screen compare the selected HEI's Overall results against the exactly on the point that divides one quartile from the next, the Tool puts this value Note that $Q1 = Lower Quartile and Q4 = Upper Quartile.$	comparative quarti into the quartile a	les data publisher bove. For exampl	d by Research Eng e, if the median va	land (which are o lue is 45 and the :	nly available Ui selected HEI's v	K-wide, therefore no conv value is 45, the Tool stat	nparator group selection is availables the result as Q3.	le). Where a	a value falls
UoA ·	Multi Sub	Joint Sub	# Subs	4* *		4*/3*	4*/3*/2*		
03: Allied Health Professions, Dentistry, Nursing and Pharmacy			94	44	04	93	04	100	MAX
04: Psychology, Psychiatry and Neuroscience			82	19	02	71	03	97	Q2
09: Physics			41	25	03	84	<u>02</u>	100	MAX
10: Mathematical Sciences			53	14	02	75	02	100	MAX
11: Computer Science and Informatics			89	11	02	60	02	98	03
12: Engineering			62	18	03	80	03	100	MAX
16: Economics and Econometrics			28	19	03	82	03	100	MAX
17: Business and Management Studies			101	11	02	62	03	96	03
18: Law			67	9	02	49	<u>a</u> 2	96	02

For UoA 3, Allied Health, there were 94 submissions across the sector. This institution had 44% of its submission graded 4* and this placed it in Quartile 4 (top quartile) with respect to other submissions. Likewise, for UoA 9, Physics, this institution had 84% of its submission rated 4*/3* which, in relation to other 41 Physics submissions in the sector, placed its submission in Quartile 2. Finally, in UoA 12, Engineering, 100% of its submission was graded 4*, 3* or 2* and hence the table shows this with the "Max" categorisation.

A summary for the institution is also provided as shown below. This indicates, for example, that for 2 UoAs (from a total of 14 UoAs to whom the institution submitted) the proportion of the submission receiving the 4* grading was in the top quartile of submissions for that UoA. The institution had 6 UoAs where 100% of the submission was graded 4*, 3* or 2*.

4*		4*/3*		4*/3*/2*	
MAX	0 submissions (0%)	MAX	0 submissions (0%)	MAX	6 submissions (43%
Q4	2 submissions (14%)	Q4	2 submissions (14%)	Q4	0 submissions (0%)
Q3	5 submissions (36%)	Q3	5 submissions (36%)	Q3	3 submissions (21%
02	7 submissions (50%)	Q2	6 submissions (43%)	Q2	4 submissions (29%
Q1	0 submissions (0%)	Q1	1 submissions (7%)	Q1	1 submissions (7%)
MIN	0 submissions (0%)	MIN	0 submissions (0%)	MIN	0 submissions (0%)

Summary of UoA submissions: Benchmarking

This screen is only available following upload of the sector results.

Summary of the positions of all submissions made by the selected HEI, across the Quality, Combined, and Volume measures, for the **Overall** results.

This is available using the toggle facility within this view as shown in the arrowed box below.

REF2021 Results Analysis 🔹	Home	Overall R	esults + O	utput Result	s • 1	mpact Re	sults - Env	vironment R	esults -					FS	ettings +	? Support
Overall III: Benchmarking sumn	nary	of UoA s	submissi	ons							Ap	plied Weig	ghtings & Thres	sholds •	Col	our Legend +
elect HEI		Select Comp	arator group													
X	:	UK	and of group			~										
summary of UoA submissions Benchmar	kina															
lease note that, for measures such as Power, where the 2UALITY MEASURES	result is	Multi Sub	Joint Sub	≡ Subs	ed that this % 4*	Rank	used to genera	te internal be	Rank #	og of performand	GPA	Rank		QI	Rank @	
3:Allied Health Professions, Dentistry, Nursing and Pharma	cy			94	44	12	Top 20	93	9	Top 10	3.37	8	Top 10	73	9	Top 10
04.Psychology, Psychiatry and Neuroscience				82	19	46	Top 50	71	40	Top 50	2.86	42	Top 50	55	42	Top 50
09:Physics				41	25	14	Top 20	84	27	Top 50	3.09	21	Top 50	62	20	Top 20
10 Mathematical Sciences				53	14	30	Top 50	75	35	Top 50	2.89	33	Top 50	55	34	Top 50
11:Computer Science and Informatics				89	11	48	Top 50	60	48	Top 50	2.67	49	Top 50	48	50	Top 50
12:Engineering				62	18	22	Top 50	80	28	Top 50	2.98	25	Top 50	58	24	Top 50
16:Economics and Econometrics				28	19	10	Top 10	82	12	Top 20	3.01	12	Top 20	59	12	Top 20
17:Business and Management Studies				101	11	63	Not in top 50	62	51	Not in top 50	2.69	53	Not in top 50	48	53	Not in top 50

This table indicates, for example, that in UoA 9, Physics, there were 41 submissions from the sector and that with 25% of its submission rated 4*, this institution ranked 14 in the list of 41. 84% of its submission was rated 4* or 3* and this placed it at number 27 in the ranking of the 41 submissions.

20

d. Overall IV: UoA results

This screen is only available following upload of the sector results

Summary of UoA Overall results

Summary of the **Overall** results within the selected UoA, showing the averages (arithmetic means), weighted averages, and total values.

In the example below, we see that there were 2,747.69 staff submitted for this UoA across 94 submissions (some of which will be multiple and others joint).

The averages and weighted averages for the grades etc are likewise for the UoA across the sector.

REF2021	Result	ts A	nal	ysis	4	N Home	Ove	erall Res	ults 🕶	Outpu	t Results ·	• Imp	act Result	s ≠ I	Environment	Results +			J.C.	Settings 👻 🕯	Support 🗸
Overall IV	/: UoA I	Resi	ults													4	Applied We	eightings &	Threshold	s • Colour	Legend -
Summary of the	all subm	issior	ntistry ns to n the s		• Ove	erall re	SUITS	ages (ari	hmetic	means), w	reighted av	erages (se	e Home so	reen for o	lefinition), and	d total valu	es.				
UoA 3 Overall summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4*FTE	3*FTE	2*FTE	1°FTE	U/C FTE	4*/3*FTE	Power	# Subs	# Mult Subs	# Joint Subs	# Submitting HEIs	Prop Staff Sub
Averages	29.23	24	51	21	2	1	75	2.95	58	8.98	14.57	5.01	0.45	0.22	23.55	0.22	-	-	-	-	48.45%
Weighted Averages	-	31	50	17	2	1	81	3.08	63	-	-	-	-	-	-	-	-	-	-	-	34.23%
Totals	2,747.69		-	-	-	-	-	-	-	844.42	1,369.23	471.17	42.28	20.59	2,213.65	-	94	21	6	83	-

Summary of UoA Overall institutional benchmarking and market share

Summary of the selected HEI's Overall outcomes within the UoA, showing selected results, rankings, and market share. Rankings within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions either separated or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). Note that in order to be able to combine multiple submissions (in this table and the next), and select a comparator group for the next table, you must first select an HEI.

REF2021 Results Analysis	# Home	Overall Results	Output	t Results	- In	npact Resul	ts • Envir	onment Re:	sults 👻			🖋 Settings	 ? Support
Summary of UoA Overall Institutional I	benchmarkin	g and Markel	t Share									- copore to	
Select HEI	Mult	iple Submission	n										
	× 💿 S	eparate 🔿 Co	mbine										
hose to which the selected HEI belongs. You can ch wherever relevant).	oose whether to v	iew the results wi	th multiple su	GPA	defined,	or combine	d into a single s	ubmission. \	When combined,	the weighted average	(see Home screen fo	or definition) valu	es are provided
												- Carlo Carlo Carlo	The second second
Values		44	93	3.37	73	28.42	60.08	0.56	64.60	62.12%	64.60	28.42	60.04
Values		44	93	3.37	73	28.42	60.08	0.56	64.60	62.12%	64.60	28.42	60.08
Values	74	9	93	3.37	73	28.42	60.08	0.56	64.60	62.12%	64.60 2.96%	28.42 4.36%	60.08 3.47%
England KEF X	74	44 9 3	93 6 1	3.37 6 2	73 7 2	28.42 4 1	60.08 4 1	0.56 4 1	64.60 5 1	62.12%	64.60 2.96% 16.79%	28.42 4.36% 20.66%	60.08 3.47% 18.47%
England KEF X Pre 92	74 11 44	44 9 3 12	93 6 1 8	3.37 6 2 8	73 7 2 9	28.42 4 1 7	60.08 4 1 7	0.56 4 1 7	64.60 5 1 8	62.12%	64.60 2.96% 16.79% 3.64%	28.42 4.36% 20.66% 4.10%	60.00 3.47% 18.47% 3.86%
England KEF X Pre 92 South East	74 11 44 11	44 9 3 12 2	93 6 1 8 2	3.37 6 2 8 2	73 7 2 9 2	28.42 4 1 7 1	60.08 4 1 7 1	0.56 4 1 7 1	64.60 5 1 8 1	62.12%	64.60 2.96% 16.79% 3.64% 27.13%	28.42 4.36% 20.66% 4.10% 37.35%	60.08 3.47% 18.47% 3.86% 30.17%

The figures shown for the row entitled "Values" are those associated with the selected institution for the selected UoA.

The figures shown for the various comparator groups show the number of institutions in each comparator groups and then the position that the selected institution ranks within that comparator

21

group for the heading. For example, this institution has a GPA of 3.37 for this UoA which was the 8th highest in the UK, similarly the institution returned 64.4 Cat A FTE for the UoA which was the highest value in the South East of England.

The Market Share values (in brown with MS) show the actual values for the selected institution for the UoA and then express these as a proportion of the total for the comparator groups. The total values for the comparator groups are not shown in the table.

UoA Overall results and rankings

Overall results for all submissions to the selected UoA within the selected comparator group (in order for you to be able to select a comparator group, you must first select an HEI in the table above). Multiple submissions are separated or combined as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order.

REF2	021 Results	s Analysis	Home Ov	verall Results + Out	put Result	s •	Impa	ict Res	sults -	Er	vironme	nt Result	s •						🖋 Setti	ings +	? Support -
1104.0	used results an	d hanshmadving																	🕹 Ехро	rt Table da	ata into Excel
UDAU	verall results an	a benchmarking																			
Select C	omparator group																				
UK			~																		
Overall re provided	esults for all submissio (wherever relevant). T	ins to the selected UoA The HEI selected above	within the selecter is highlighted. Ea	d comparator group. Mult ch column can be selecte	ple submis: d in order to	sions a o prese	re defir nt the i	ned / co results	ombine in the (id, as pe desired	er the sele rank orde	ction abo	ve. Wh	en combir	ied, the we	ighted aver	rage (see H	Home scr	een for de	finition) val	lues are
Rank	HEI	UoA	Multiple Submission	Joint Submission	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4°FTE	3ºFTE	2*FTE	1*FTE	U/C FTE	4*/3* FTE	Power	Prop Staff Sub
1		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			11.30	10	72	18	0	0	82	2.92	55	1.13	8.14	2.03	0.00	0.00	9.27	0.07	9.26 %
2		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			56.80	45	49	5	0	1	94	3.37	74	25.56	27.83	2.84	0.00	0.57	53.39	0.50	63.82 %
3		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.00	35	60	4	1	0	95	3.29	70	4.20	7.20	0.48	0.12	0.00	11.40	0.10	63.16 %
4		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.10	5	58	28	5	4	63	2.55	45	0.61	7.02	3.39	0.61	0.48	7.62	0.06	6.17 %

e. Impact / Outputs / Environment I: Institutional Results

As the screens for Impact, Outputs, and Environment are essentially the same, only **Impact** screenshots are shown here.

Initially only your own HEI's results may be available on these screens. All other HEIs will be available following upload of the sector results.

The number of case studies is calculated based on the business rule provided by Research England in the REF submission guidance. The guidance stated as follows:

FTE of Cat A submitted staff	Required number of impact case studies (ICS)
Up to 19.99	2
20 - 34.99	3
35 - 45.99	4
50 - 64.99	5
65 - 79.99	6
80 - 94.99	7
95 - 109.99	8
110 to 159.99	9
160 or more	10 plus one further ICS per additional 50 FTE

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England.

Institutional summary of Impact / Outputs / Environment results

Institutional summary of the selected HEI's **Impact / Outputs / Environment** REF2021 results, showing the averages (arithmetic means), weighted averages, and total values. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution.

REF2021 Results A	nalysis	🛿 Hom	e C	Overall F	Results	• O	utput Res	ults 🕶	Impac	t Results 👻	Environment Results +		📕 Settin	gs • ? Support •
Impact I: Institutiona	al Results										Ap	plied Weightings &	& Thresholds +	Colour Legend +
Select HEI	×													
Institutional summary of In	npact results										1) 11/11/11/2010 11 11	100000 TT 102777	7020 BF 270	
Institutional summary of the selected headcount of submitted staff (Catego Submissions have been made, the n	I HEI's REF2021 In ory A plus Category number of Case Stu	C) is the	sults, sh ree or fe y be ove	owing the ewer have erstated	he avera ve not b as this	ages (arit) een publi calculatio	hmetic me shed and a on is made	ans), weig are not inc based on	hted ave luded in the Cat	the results p A FTE submi	Home screen for definition), and resented in this table, except wi itted by each partner HEI, not by	total values. Sub-p here it is your own i y the Joint Submiss	rofiles for any subn institution. Note tha ion as a single sub	nission whose t where Joint mission.
University of Surrey Summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	# Subs	# Published SubProfiles	# Mult Subs	# Joint Subs	# Case Studies
Averages	30.58	24.5	40.6	27.6	7.3	0.0	65.1	2.82	55					4
Weighted Averages		27.7	46.7	21.7	3.8	0.0	74.4	2.98	60			-		
Totals	458.76	-		-	•			-		15	15	0	0	59

Level Table data into Excel

Impact / Outputs / Environment results: Submitted UoA(s)

Impact / Outputs / Environment results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution.

Impact results: Submitted UoA(s)

Impact results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff (Category A plus Category C) is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

Rank	UoA 🔺	Multiple Submission 0	Joint Submission 0	Cat A FTE	4* 0	3* 0	2* 0	1**	U/C	4*/3* •	GPA 🛛	QI	# Case Studies
1	03: Allied Health Professions, Dentistry, Nursing and Pharmacy			64.60	65.7	22.9	11.4	0.0	0.0	88.6	3.54	81	7
2	04: Psychology, Psychiatry and Neuroscience			20.00	26.7	20.0	53.3	0.0	0.0	46.7	2.73	51	3
3	09: Physics			27.50	40.0	50.0	10.0	0.0	0.0	90.0	3.30	71	4
4	10: Mathematical Sciences			28.42	0.0	40.0	60.0	0.0	0.0	40.0	2.40	38	4
5	11: Computer Science and Informatics			19.40	20.0	26.7	53.3	0.0	0.0	46.7	2.67	48	3
6	12: Engineering			54.95	33.3	56.7	10.0	0.0	0.0	90.0	3.23	68	6

f. Impact / Outputs / Environment II: Institutional Benchmarking

These screens are only available following upload of the sector results.

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England.

Summary of institutional Impact / Outputs / Environment benchmarking

Institutional summary of the selected HEI's **Impact / Outputs / Environment** REF2021 results, rankings using weighted averages (see Home screen for definition) wherever relevant. Rankings within each comparator group are displayed for each measure. The comparator groups displayed are all those to which the selected HEI belongs. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table.

REF2021 Results Analysis Home Overall Result	ts • Output Results •	Impact Results + En	vironment Results +			F Settings - ? Support
Impact II: Institutional benchmarking				Ар	plied Weightin	gs & Thresholds + Colour Legend +
Select HEI						
Summary of institutional Impact benchmarking						
Institutional summary of the selected HEI's REF2021 Impact results, benchmarking, market share. The comparator groups displayed are all those to which the selected H presented in this table. Note that where Joint Submissions have been made, the nur submission.	and market share, using weigh IEI belongs. Sub-profiles for an ober of Case Studies may be or	ted averages (see Home scre ty submission whose headcou verstated as this calculation is	en for definition) wherever re int of submitted staff (Catego s made based on the Cat A F	elevant. Rank within e ny A) is three or fewe TE submitted by each	each comparato r have not beer h partner HEI, n	r group are displayed for each measure, as is published and are not included in the result of by the Joint Submission as a single
	# HEIs	% 4*	% 4*/3*	GPA	QI	# Case Studies
Values		30.0	68.8	2.94	59	42
England	119	56	72	67	68	32
KEF X	20	16	18	18	18	
						14
Pre 92	70	62	65	65	65	14
Pre 92 South East	70	62	65	65	65	14 42 8
Pre 92 South East Atti Test 1	70 17 7	62	65	65	65 11	14 42 8

Institutional Impact / Outputs / Environment results and benchmarking

Impact / Outputs / Environment results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2021 Results Analysis & Home Overall Results - Output Results - Impact Results - Environment Results -✓ Settings - ? Support -Institutional Impact results and benchmarking Select Comparator group ~

UK

Impact results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staft (Category A) is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

Rank	Hei	Cat A FTE	4"	3*	2*	1.	U/C	4*/3*	GPA	a	# Subs	# Published SubProfiles	# Mult Subs	# Joint Subs	# Case Studies	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1		316.79	34.4	44.6	17.3	3.7	0.0	79.0	3.10	64	17	17	2	2	43	8	47.06 %	14	82.35 %
2		168.36	7.9	38.7	36.5	15.6	1.3	46.6	2.36	40	15	15	0	0	30	2	13.33 %	6	40.00 %
3		12.10	0.0	40.0	40.0	20.0	0.0	40.0	2.20	34	1	1	0	0	2	0	0.00 %	0	0.00 %
4		175.43	41.2	49.2	7.8	1.8	0.0	90.4	3.30	71	6	6	0	0	18	5	83.33 %	6	100.00 %
5		220.35	40.6	48.4	8.3	2.7	0.0	89.0	3.27	70	13	13	0	3	31	10	76.92 %	12	92.31 %
6		74.02	9.7	54.1	36.2	0.0	0.0	63.8	2.74	49	6	6	0	0	13	1	16.67 %	4	66.67 %
7		327.76	31.5	49.5	16.4	2.3	0.3	81.0	3.10	64	14	14	0	2	39	9	64.29 %	14	100.00 %
8		121.91	29.3	58.0	8.5	1.8	2.4	87.2	3.10	64	11	11	0	0	23	6	54.55 %	10	90.91 %
9		6.00	0.0	0.0	40.0	50.0	10.0	0.0	1.30	13	3	1	0	0	6	0	0.00 %	0	0.00 %
10		161.80	28.1	43.6	25.0	3.2	0.0	71.7	2.97	59	8	8	0	0	21	4	50.00 %	7	87.50 %
11		522.35	21.7	43.3	24.8	8.8	1.4	65.0	2.75	53	21	21	0	0	59	8	38.10 %	15	71.43 %
12		21.70	8.8	35.4	46.5	0.0	9.2	44.2	2.35	40	4	3	0	0	8	1	25.00 %	1	25.00 %

g. Impact / Outputs / Environment III: Benchmarking of UoA submissions

Summary of UoA submissions: Quartiles

Initially only your own HEI's results may be available on this screen as they will be released first to your institution. All other HEIs will be available following upload of the sector results.

The results on this screen compare the selected HEI's **Impact / Outputs / Environment** results against the comparative quartiles data published by Research England (which are only available UK-wide, therefore no comparator group selection is available). Where a value falls exactly on the point that divides one quartile from the next, the Tool puts this value into the quartile above. For example, if the median value is 45 and the selected HEI's value is 45, the Tool states the result as Q3. Note that Q1 = Lower Quartile and Q4 = Upper Quartile.

Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the resultspresented in this table, except where it is your own institution.

REF2021 Results Analysis #Home Overall Res	sults - Outpu	t Results - In	npact Results •	Environme	nt Results -		📕 Settir	ngs • ? Support •
Impact III: Benchmarking summary of UoA su	Ibmissions	5					Applied Weightings & Thresholds -	Colour Legend -
Select HEI								
×								
Summary of UoA submissions:Quartiles								
The results on time screen compare the selected rets impact results against the eachty on the point that divides one quaritils from the next, the Too Jupits this value Sub-profiles for any submission whose headcourt of submitted staff (Category A) Note that Q1 = Lower Quartile and Q4 = Upper Quartile.	into the quartile al is three or fewer ha	es data published b oove. For example, ive not been publist	if the median va hed and are not	lue is 45 and the included in the re	selected HEI's v sults presented	alue is 45, the Tool sta in this table.	imparation group selection is available). W	mere a value fails
UoA *	Multi Sub	Joint Sub	# Subs	4*		4°/3°	 4*/3*/2* 	
03: Allied Health Professions, Dentistry, Nursing and Pharmacy			94	65.7	Q4	88.6	<u> </u>	00.0 MAX
04: Psychology, Psychiatry and Neuroscience			82	26.7	<u> </u>	46.7	Q1	0.00 MAX
09: Physics			41	40.0	Q3	90.0	03	0.00 XAM 0.001
10: Mathematical Sciences			53	0.0	02	40.0	Q1 3	0.00
11: Computer Science and Informatics			89	20.0	<u>03</u>	46.7	600	0.00
12: Engineering			62	33.3	03	90.0	Q4	00.0 MAX
16: Economics and Econometrics			28	0.0	MIN	86.7	03	00.0 MAX
17: Business and Management Studies			101	0.0	MIN	34.0	Q1	84.0 01
18: Law			67	0.0	02	40.0	02	80.0 01

Summary of UoA submissions: Benchmarking

This screen is only available following upload of the sector results

Summary of the positions of all submissions made by the selected HEI, across the Quality measures, for the **Impact / Outputs / Environment** results. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table.

REF2021 Results Analysis	🖷 Home	Overall Results -	Output Results -	Impact Results +	Environment Results -	🖌 Settir	ngs • ? Support •
Impact III: Benchmarking sur	nmany o		sions			Applied Weightings & Thresholds -	Colour Legend -

Impact III: Benchmarking summary of UoA submissions

Benchmarking O Quartiles

elect HEI		Select Comparator group	
	×	UK	~

Summary of UoA submissions:Benchmarking

Summary of the positions of all submissions made by the selected HEI, across the Quality measures, for the Impact sub-profile. Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table.

QUALITY MEASURES

UoA	Multi Sul	Joint Sub	# Subs	% 4*	Rank		% 4*/3*	Rank		GPA	Rank		QI	Rank =	1
03:Allied Health Professions, Dentistry, Nursing and Pharmacy			94	65.7	20	Top 20	88.60	60	Not in top 50	3.54	25	Top 50	81	23	Top 50
04:Psychology, Psychiatry and Neuroscience			82	26.7	56	Not in top 50	46.70	67	Not in top 50	2.73	64	Not in top 50	51	65	Not in top 50
09:Physics			41	40.0	17	Top 20	90.00	15	Top 20	3.30	16	Top 20	71	17	Top 20
10:Mathematical Sciences			53	0.0	35	Top 50	40.00	45	Top 50	2.40	41	Top 50	38	43	Top 50
11:Computer Science and Informatics			89	20.0	39	Top 50	46.70	63	Not in top 50	2.67	53	Not in top 50	48	52	Not in top 50
12:Engineering			62	33.3	22	Top 50	90.00	15	Top 20	3.23	20	Top 20	68	20	Top 20
16:Economics and Econometrics			28	0.0	22	Top 50	86.70	11	Top 20	2.87	16	Top 20	52	17	Top 20

h. Impact / Outputs / Environment IV: UoA results

This screen is only available following upload of the sector results.

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England.

Summary of UoA Impact / Outputs / Environment results

Summary of the **Impact / Outputs / Environment** results within the selected UoA, showing the averages (arithmetic means), weighted averages, and total values. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the resultspresented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2021 Results	s Analysis	6 #	Home	Ove	erall Re	sults 👻	Output	Results =	Im	pact Results	- Environme	ent Results 👻		⊮ Settin	gs • ? Support •
Impact IV: UoA Re	esults												Applied	Weightings & Thresholds -	Colour Legend -
Select UoA															
9:Physics			~												
Summary of all submis	sions to UoA	: Impa	act res	ults											
Summary of the Impact results Sub-profiles for any submission submissions. Note that where J	within the selecte whose headcour oint Submissions	d UoA, s it of subr have be	howing f nitted st en made	the avera aff (Cate e, the nu	ages (ar gory A p mber of	ithmetic n olus Categ Case Stu	neans), wei gory C) is tř dies may b	ighted aver nree or few e overstate	rages (s er have ed as th	ee Home scre not been pub is calculation i	een for definition), a lished and are not is made based on i	and total values. included in the resu the Cat A FTE subm	Its presented in this table, i itted by each partner HEI,	nor are the Cat A FTEs relating to not by the Joint Submission as a s	these small ingle submission.
UoA 9 Impact summary	Cat A FTE	4ª	3*	2*	1*	U/C	4*/3*	GPA	QI	# Subs	# Mult Subs	# Joint Subs	# Submitting HEIs	# Published SubProfiles	# Case Studies
Averages	41.55	31.7	45.3	19.8	2.2	1.0	77.0	3.05	62						4
Weighted Averages		37.0	46.5	15.1	1.1	0.2	83.5	3.19	67		-	-	-		-
Totals	1,703.63	-	-	-	-	-	-	-	-	41	0	2	41	41	159
														🕹 Export	Table data into Excel

Summary of UoA Impact / Outputs / Environment institutional benchmarking

Summary of the selected HEI's **Impact / Outputs / Environment** outcomes within the UoA, showing selected results and rankings. Benchmarking within each comparator group are displayed for each measure. The comparatorgroups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions either separated or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). Note that in order to be able to combine multiple submissions (in this table and the next), and select a comparator group for the next table, you must first select an HEI.

Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the resultspresented in this table.

TELEVEL NESULS AIL	alysis # Hor	me Overall Results •	 Output Results • 	Impact Results •	Environment Re	isults -			F Settings -	? Support
									📥 Export Table o	lata into Exc
Summary of UoA Institution	al Impact benchm	narking								
Select HEI		Multiple Submission	1							
	×	Separate O Cor	mbine							
ummary of the selected HEI's Impact ose to which the selected HEI belong wherever relevant).	outcomes within the Ur gs. You can choose whe	oA, showing selected result ther to view the results wit	ts, benchmarking, and mark h multiple submissions defi	ket share. Rank within eac ned, or combined into a si	ch comparator gro ingle submission.	up are displayed for ear When combined, the we	ch measure, as is n eighted average (se	narket share. ee Home scree	The comparator groups di en for definition) values ar	splayed are a e provided
udies may be overstated as this calc	ulation is made based o	on the Cat A FTE submitter	d by each partner HEI, not b # Submission	by the Joint Submission as	s a single submiss	\$ 4*13*	GPA	QI	# Case Studies	
Values					40.0	90.0	3.30	71		3
Values			32		40.0	90.0	3.30	71		3
England KEF X			32 12		40.0 11 4	90.0 10 5	3 30 10 4	71 11 5		3
England KEF X Pre 92			32 12 36		40.0 11 4 17	90.0 10 5 15	3.30 10 4 16	71 11 5 17		3
England KEF X Pre 92 South East			32 12 36 7		40.0 11 4 17 4	90.0 10 5 15 3	3.30 10 4 16 3	71 11 5 17 3		3

Le Export Table data into Excel

UoA Impact / Outputs / Environment results and benchmarking

Impact / Outputs / Environment results for all submissions to the selected UoA within the selected comparator group (in order for you to be able to select a comparator group, you must first select an HEI in the table above). Multiple submissions are either separated or combined, as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staffis three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2	021 Results Anal	YSIS # Home Overall Results	• Output Results •	Impact Results -	Environment Results	-							₽ Setti	ngs -	? Support
UoA Im	pact results and bench	marking											- Cyho	IL IGNIC	JOID HINV LAU
UK		~													
mpact re provided Sub-profi where Jo	sults for all submissions to the se (wherever relevant). The HEI sel les for any submission whose he nt Submissions have been made	elected UoA within the selected comparator ected above is highlighted. Each column car adcount of submitted staff (Category A) is th e, the number of Case Studies may be overs	group. Multiple submissions are h be selected in order to presen ree or fewer have not been put tated as this calculation is mad	e defined / combined, it the results in the de Nished and are not in e based on the Cat A	as per the selection above sired rank order. cluded in the results preser FTE submitted by each pa	. When co nted in this intner HEI,	mbined, table, n not by th	the wei or are tr ne Joint	ghted a ne Cat / Submis	verage AFTEs ision a:	(see Ho relating s a single	ome scree to these s e submiss	en for def small sub sion.	finition) v omission	alues are
Rank	HEI	UoA	Multiple Submission	Joint Submission		Cat A FTE	4"	3*	2"	1*	uic	4"/3"	GPA	a	# Case Studies
1		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				11.30	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
2		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				56.80	55.7	38.6	5.7	0.0	0.0	94.3	3.50	79	5
3		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				12.00	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
4		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				12.10	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
5		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				21.40	0.0	63.3	36.7	0.0	0.0	63.3	2.63	45	3
6		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				50.60	13.3	33.4	53.3	0.0	0.0	46.7	2.60	45	5
7		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				7.10	0.0	20.0	80.0	0.0	0.0	20.0	2.20	31	2
8		03: Allied Health Professions, Dentistry, Nursing and Pharmacy				13.90	0.0	90.0	10.0	0.0	0.0	90.0	2.90	53	2

30