

2020 National Taiwan University Performance Ranking of Scientific Papers for World Universities

SUMMARY

1. In 2020, McMaster University ranked 120th globally.
2. McMaster remained the second highest ranked university in Ontario and the sixth highest ranked university in Canada.

BACKGROUND

Overview – NTU Ranking

The National Taiwan University (NTU) Ranking is an annual ranking of the bibliometric performance of the top 500 universities worldwide.

To assess and rank each university's bibliometric output, NTU uses the following nine weighted measures grouped into three pillar areas:

1. Research Productivity (25%)

- Number of articles last 11 years (10%)
- Number of articles current year (15%)

2. Research Impact (35%)

- Number of citations last 11 years (15%)
- Number of citations last two years (10%)
- Avg. number of citations last 11 years (10%)

3. Research Excellence (40%)

- H-Index last two years (10%)
- Number of highly cited papers last 11 years (15%)
- Number of articles in high impact journals, current year (15%)

NTU Ranking by Field

NTU applies the same method to produce rankings of the top universities in six fields: Agriculture; Clinical Medicine; Engineering; Life Sciences; Natural Sciences; and Social Sciences.

CURRENT STATUS

In October 2020, NTU released its annual Performance Ranking of Scientific Papers for World Universities. In total, 18 Canadian universities were ranked among the world's top 500 and 8 in the top 200 institutions.

McMaster ranked 120th overall, a decrease of one position compared to 2019 where it ranked 119th overall. Additionally, the University remained the second highest ranked university in Ontario and the sixth highest ranked university in Canada, behind Toronto (3), UBC (33), McGill (49), Alberta (92), and Montréal (115).

Table 1 shows the eight Canadian universities that were ranked among the world's top 200 institutions in 2020, and for comparison their 2019 information. Since all institutions are ranked against the top performing institution (Harvard), Harvard's extraordinary performance in this year's ranking, severely deflated the scores of all comparator institutions. However, ranking fluctuations were in normal ranges as can be evidenced in Table 1.

Table 1: NTU - Canadian Universities Ranked in the Top 200, 2019 vs. 2020

	2019			2020			Δ		
	Total Score	Rank		Total Score	Rank		Total Score	Rank	
		Can.	World		Can.	World		Can.	World
Toronto	94.8	1	4	62.2	1	3	-32.6	N/C	1
UBC	77.3	2	27	49.1	2	33	-28.2	N/C	-6
McGill	71.9	3	47	46.7	3	49	-25.2	N/C	-2
Alberta	66.4	4	81	42.8	4	92	-23.6	N/C	-11
Montréal	63.4	5	104	41.1	5	115	-22.3	N/C	-11
McMaster	62.2	6	119	40.8	6	120	-21.4	N/C	-1
Calgary	60.8	7	132	39.4	7	147	-21.4	N/C	-15
Ottawa	59.9	8	147	39.0	8	156	-20.9	N/C	-9

N/C = No Change, N/R = Not Rated

NTU Ranking by Field

In 2020, McMaster was ranked in the top 100 in two subject areas. In Clinical Medicine, McMaster ranked 51st overall and 4th in Canada. In Social Sciences, the University ranked 59th overall 4th in Canada (see Table 2). Globally, McMaster saw its only increases come in the Agriculture and Engineering subject fields.

Table 2: McMaster's NTU Rankings by Field, 2019 vs. 2020

Field	2019 Rank		2020 Rank		Δ	
	World	Canada	World	Canada	World	Canada
Agriculture	351-400	20	301-350	18	Increase	2
Clinical Medicine	49	4	51	4	-2	N/C
Engineering	273	8	269	9	4	-1
Life Sciences	155	7	174	7	-19	N/C
Natural Sciences	401-450	11	401-450	14	N/C	-3
Social Sciences	52	4	59	4	-7	N/C

N/C = No Change, N/R = Not Rated

CONSIDERATIONS

1. McMaster does not submit data for the NTU Ranking

Unlike the Times Higher Education's and QS's world university rankings, universities do not submit data for the NTU ranking. For its annual ranking, NTU obtains information from Clarivate's Essential Science Indicators (ESI) and Web of Science Core Collection.