

**2020 Shanghai Jiao Tong University's Academic Ranking of World Universities**

**SUMMARY**

- In 2020, McMaster University ranked 98<sup>th</sup> overall.
- McMaster is the 4<sup>th</sup> highest ranked institution in Canada trailing behind: Toronto (23), British Columbia (38) and McGill (78).

**BACKGROUND**

The Academic Ranking of World Universities (ARWU) uses six weighted measures to assess and rank each university's quality of education, faculty and research output:

1. Alumni who have won the Nobel Prize and Fields Medal (10%);
2. Staff who have won the Nobel Prize and Fields Medal (20%);
3. Clarivate Analytics Highly Cited Researchers (20%);
4. Papers published in Nature and Science (20%);
5. Papers indexed in Science Citation and Social Science Citation Indices in 2014 (20%); and
6. Per capita academic performance (10%).

For each of the weighted measures, the highest scoring institution is assigned a score of 100, and each institutions score is then normalized to the top scoring university using the following equation:  $100 * (\sqrt{X/H})$ , where X is the score for a particular institution and H is the score for the top scoring university. Overall rank is then determined based on each institution's score in relation to the top university.

It is worth noting that unlike Times Higher Education and QS Rankings, institutions do not submit data to ARWU. ARWU collects bibliometric information from both Clarivate Analytics and Web of Science, while award and prize information is collected from the award's respective website.

**CURRENT STATUS**

On August 15, 2020, Shanghai Jiao Tong University's ARWU released its 2020 ranking of the world's top universities. Overall, McMaster ranked 98<sup>th</sup>. This is a decrease of 8 positions from last year's rank for the university.

McMaster is the second highest ranked university in Ontario, and fourth in Canada, behind only: the University of Toronto (23), the University of British Columbia (38) and McGill University (78). Among the four Canadian universities ranked in the top 100, McMaster experienced the largest decrease in rank, while McGill saw the largest increase in rank (please refer to Table 1 & Figure 1).

**Table 1: ARWU Top 100 Ranked Canadian Universities, 2019 vs. 2020**

	2019 ARWU		2020 ARWU		Δ 2019 to 2020	
	World	Canada	World	Canada	World	Canada
Toronto	24	1	23	1	1	N/C
UBC	35	2	38	2	-3	N/C
McGill	90	3	78	3	12	N/C
McMaster	90	4	98	4	-8	N/C

**Figure 1: Top 100 Ranked Canadian Universities, 2016 to 2020**

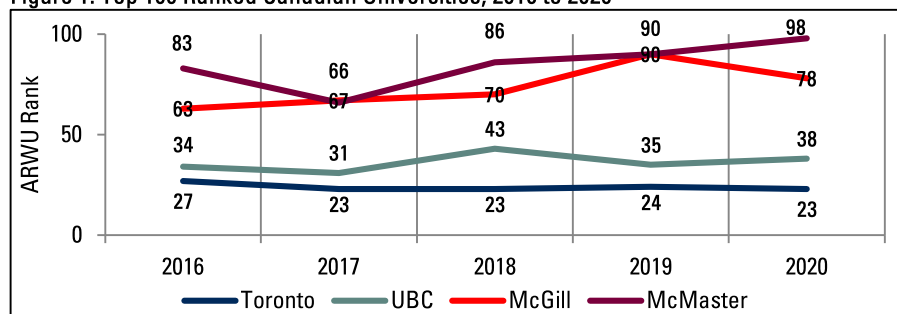


Table 2 provides a breakdown of McMaster's 2020 ARWU scores compared to the previous year. In 2020, McMaster's overall score decreased by 1.3 points, to 25.8. As shown in Table 2, this decline was primarily the result of a decrease in the adjusted score received in the Highly Cited Researchers and Papers in Nature & Science indicators (1.32 points fewer than 2019's score).

**Table 2: McMaster's ARWU Score, 2019 vs. 2020**

Indicator	2019		2020		Δ
	Score	Adjusted Score	Score	Adjusted Score	
Alumni Nobel Prizes & Fields Medals (10%)	19.4	1.94	18.8	1.88	-0.06
Staff Nobel Prizes & Fields Medals (20%)	18.6	3.72	18.2	3.64	-0.08
Highly cited researchers (20%)	31.1	6.22	26.2	5.24	-0.98
Papers in Nature & Science (20%)	11.4	2.28	9.7	1.94	-0.34
Papers in Science & Social Sciences (20%)	45.8	9.16	46.9	9.38	0.22
Per capita academic performance (10%)	31.6	3.16	32.0	3.2	0.04
<b>Overall Score</b>		27.1		25.8	-1.3
<b>Global Rank</b>		90		98	-8