



## **Progress Report 4**

# **Securing Australia's Mathematical Workforce Project**

## **The Australian Mathematical Sciences Institute (AMSI)**

Reporting Period: From 1 July 2019 to 30 June 2020

Submission Date: 14 August 2020

## **Purpose**

Under item 6 of Part A of the Conditions of Grant (CoG) the Recipient is required to provide the Department of Education and Training with Annual Reports that include:

- (a) evidence of completion of the relevant milestones for the period set out in Schedule 1
- (b) a statement of actual versus budgeted income and expenditure for the year, including details of expenditure of the Grant and interest earned on Grant Funds
- (c) a statement signed by a person authorised to do so on behalf of the Recipient that verifies the reports are to the best of their knowledge a true and accurate statement of the status of the project.

The Annual Reports should address the relevant project activities and agreed milestones and key performance indicators (KPIs) for the relevant timeframes specified in the Program Plan in Schedule 1 of the CoG.

Annual Reports assist the Department of Education and Training to evaluate the project's progress towards achieving its overall objective described in the CoG and defined by the activities listed in items 3(a)-3(h) of Part A that includes delivery of:

- annual Vacation Research Scholarships
- annual Internships for Master and PhD students
- an annual Summer School
- an annual Winter School
- an annual BioInfoSummer symposium
- an annual Optimisation symposium
- mathematical sciences participation strategies for female and Aboriginal and Torres Strait Islander participants
- outreach and engagement activities in order to demonstrate educational pathways and researcher careers in mathematical sciences to school students.

## **Report Instructions**

Do not alter the headings or the layout of the reporting document. These headings and the layout have been designed to assist the department to evaluate the project report and for evaluation of the project objectives.

- All sections of the template must be completed for the project reporting period.
- The department reserves the right to either accept the report or seek further information from the Recipient.
- Under clause 5 of Part B of the CoG, payment of funding installments will occur on completion of the report to the satisfaction of the Project Delegate.
- The department will provide feedback to the Recipient following its assessment of the report.
- If the Recipient requires clarification on any aspect of reporting, please contact us through the Project inbox ([education-amsi@education.gov.au](mailto:education-amsi@education.gov.au)).

## 1. Report Summary

For the reporting period, provide a summary of progress towards achieving the project the overall project objective (item 3 of Part A in the CoG). The response must include key successes and challenges in:

- implementing the projects key educational activities (identified in item 3 of Part A) and achieving the overall project participation targets for domestic and overall students' participation identified on page 2 of the Project Implementation Plan (attached)
- delivering strategies for female and Aboriginal and Torres Strait Islander student participation, and outreach
- implementing engagement activities that demonstrated educational pathways and researcher careers in mathematical sciences to school students.

*The Securing Australia's Mathematical Workforce project performed successfully in its fourth year – meeting and exceeding most of its KPIs. The program included its second ever conference on the west coast of Australia, the addition of the AMSI workshop program and a huge pool of over 250 lecturers and keynote speakers.*

*Mid-2019 also saw the third edition of our newest conference—AMSI Optimise, in Perth. Optimise was highly successful with the themes 'Mining, Oil, Gas, Agriculture and Water'. Our 'BHP Business Breakfast Panel' was a key feature of the program and stimulated discussion on the challenges of attracting and retaining the best STEM graduates into industry under a competitive labour market. The participation target was exceeded at 99 participants with a close to perfect domestic attendance of 73 participants. Broad attendance was noted including WA Chief Scientist Professor Peter Klinken.*

*The annual Winter School returned to the Queensland University of Technology in 2019. The residential school provided a specialist research training event to over 70 students with international lecturing staff from Germany, Scotland and Australia. The program also featured a special lecture by Professor Michael Stumpf from the University of Melbourne on Turing pattern mechanisms. All targets were exceeded for this residential school.*

*Our annual AMSI BioInfoSummer Conference was held at the University of Sydney for the first time since 2015. The conference partnered with BioC Asia this year to have 226 participants. It continues to bring high engagement from a variety of stakeholder groups and leads gender equity amongst its participants and speakers. All targets were met or nearly met with the survey responses 8% short of the required 50% response rate. Domestic participation was exceeded with 166 domestic participants in total.*

*The 2020 Summer School again drew a large participant tally of 163 students, just 8 students short of the school record. Overall, 88 domestic students participated in the residential school – 32 short of the target.*

*The Vacation Research Scholarship program saw 66 students complete their projects with 61 of those domestic students – one short of the required KPI.*

*Finally, the addition of the AMSI Workshop program saw 1847 participants over 16 workshops and conferences sponsored by AMSI. 861 domestic attendees were in attendance (47 per cent of total attendees). Overall, 613 workshop participants registered their details for our full demographic breakdown. The number of domestic participants (161), workshops (16) and international speakers (72) exceeded the KPI of 12 workshops with 40 domestic participants and 20 international speakers.*

*Overall participation in AMSI research training events is growing and 28 per cent increase in the annual domestic participation total was achieved in 2018/2019. The domestic participant shortfalls on individual events are primarily ongoing growth in international student cohorts across Australia and increased competition for students due to local opportunities. Finally, AMSI continues to meet and to exceed female and ATSI targets whilst creating opportunities for inclusion of minority groups. In the past year, our Diversity in STEM events have acknowledged the employment and study challenges facing women, indigenous groups, persons with a disability and those in the LGBTQIA community.*

*In conclusion, participant satisfaction for all our programs continues to be of a very high standard. The 31 university members of AMSI continue their deep engagement with us, providing both teaching staff, students and public lecturers for the project. Again, AMSI's investment in the program exceeds what the Commonwealth requires.*

*We have prepared detailed reports on each of the program's events along with a Participation Strategy report. In completing the reporting template, we have favoured brevity, referring where possible to our larger comprehensive reports.*

**Table 1.3 Achievement of the project annual KPIs****1.2 Summary of milestones and activities undertaken in reporting period**

Use Table 1.2 to provide comments on achievement of milestones and activities set out for the reporting period in the project plan, see clause 1 of Schedule 1 of the CoG.

**Table 1.2**

Achievement of activities and milestones

<b>Milestones and activities</b>	<b>Summary of completed milestones and activities (data against KPIs, delivery details, achievements)</b>	<b>Status</b>
<b>Vacation Research Scholarships</b> awarded to selected students: <ul style="list-style-type: none"> <li>• Six-week research project experience organised for each scholarship recipient under academic supervision during the period December to February</li> <li>• Two-day student conference for students to present projects and results in February</li> </ul>	Please see <b>AMSI Vacation Research Scholarships Report 2019-2020</b> attached.	Achieved
<ul style="list-style-type: none"> <li>• Provision of four-week residential <b>Summer School</b> offering courses of 14-28 hours</li> </ul>	Please see <b>AMSI Summer School 2020 Report</b> attached.	Achieved
<ul style="list-style-type: none"> <li>• Provision of two-week residential <b>Winter School</b>, including introductory <b>lectures</b> in Week One leading into specialist courses in Week Two</li> </ul>	Please see <b>AMSI Winter School 2019 Report</b> attached.	Achieved
<ul style="list-style-type: none"> <li>• Organisation of <b>BioInfoSummer</b>, five-day symposium on bioinformatics</li> </ul>	Please see <b>AMSI BioInfoSummer 2019 Report</b> attached.	Achieved
<ul style="list-style-type: none"> <li>• Two- to four-day Optimise Symposium offering introductory and specialist talks aligned with interests of the industry participants, students and researchers</li> </ul>	Please see <b>AMSI Optimise 2019 Report</b> attached.	Achieved
<ul style="list-style-type: none"> <li>• Sponsorship of research-training workshops for PhD students and early-career researchers</li> </ul>	Please see <b>AMSI Workshops Report 2019-2020 Report</b> attached.	Achieved
Activities supporting AMSI <b>female and Aboriginal and Torres Strait Islander</b> participation strategy include: <ul style="list-style-type: none"> <li>• Partnerships to support student participation in STEM</li> <li>• Online resources supporting student participation in the mathematical sciences</li> </ul>	Please see <b>AMSI Participation 2019-2020 Report</b> attached.	Achieved

**Table 1.3 Achievement of the project annual KPIs**

Milestones and activities	Summary of completed milestones and activities (data against KPIs, delivery details, achievements)	Status
<ul style="list-style-type: none"> <li>• Dedicated scholarships for female and Aboriginal and Torres Strait Islander students to participate in the AMSI project activities reviewed annually and increased based on demand</li> <li>• Women in STEM events held during project activities</li> <li>• Promotion of the mathematical sciences to female and Aboriginal and Torres Strait Islander school students through the AMSI Schools program</li> </ul>		
<p>Outreach and engagement with <b>schools' sector</b>:</p> <ul style="list-style-type: none"> <li>• Participant case studies promoted through Maths Ad(d)s, AMSI careers, AMSI website and social media</li> <li>• Public outreach events such as public lectures and panel discussions embedded in project events</li> <li>• Promotion of the mathematical sciences to school students through the AMSI Schools program including provision of careers material and professional development for teachers</li> </ul>	Please see <b>AMSI Participation 2019-2020 Report</b> attached.	Achieved
An independent review of both the 'Vacation Schools and Scholarships' and 'Securing Australia's Mathematical Workforce' projects, including a cost benefit analysis is commissioned.	Completed and supplied to DoE in early 2020	Achieved
Progress Report 4 and the financial statement provided to the Department	Please see reports attached and below.	Achieved

**Table 1.3 Achievement of the project annual KPIs**

**1.3 Achievement of KPIs**

Use Table 1.3 to report the project's achievement against KPIs for the reporting period (see clause 1 of Schedule 1 of the CoG).

Table 1.3 should include KPIs detailed in clause 1 of Schedule 1 of the CoG as well as additional KPIs agreed in the Project Implementation Plan. Please see the Implementation Plan for tables with targets for AMSI Vacation Research Scholarships, AMSI Summer School, AMSI Winter School, AMSI Internships, AMSI BioInfoSummer, female and Aboriginal and Torres Strait Islander participation and AMSI Optimise (reporting for AMSI Optimise starts from 2018).

Table 1.3 provides 2017-18 performance data for student participation that was reported in the Progress Report 2 to enable assessment of the Securing Australia's Mathematical Workforce Project value-add. It is expected that the project should aim to exceed the achievements from the previous year.

**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
AMSI Vacation Research Scholarships & AMSIConnect Student Conference	<ul style="list-style-type: none"> <li>62 domestic scholarships awarded to domestic undergraduate students</li> <li>50 projects completed and presented by scholarship recipients</li> <li>At least 80% of participant survey respondents satisfied with the quality of the scholarship program and learning outcomes (with a response rate of greater than 50%)</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded—64 scholarships awarded to domestic undergraduate students</li> <li>Exceeded—62 projects completed and presented by scholarship recipients</li> <li>Exceeded—100% of those surveyed strongly agreed or agreed that the VRS experience was positive and rewarding (response rate of 62% achieved)</li> </ul>	<ul style="list-style-type: none"> <li>Nearly Met —61 scholarships awarded to domestic undergraduate students</li> <li>Exceeded—60 projects completed and presented by domestic scholarship recipients</li> <li>Exceeded—100% of those surveyed strongly agreed or agreed that the VRS experience was positive and rewarding (response rate of 58% achieved)</li> </ul>	1. KPI Nearly Met  2. KPI Met  3. KPI Met	N/A
AMSI Summer School	<ul style="list-style-type: none"> <li>120 domestic participants</li> <li>58 domestic students whose participation was credited towards their degree by the home university</li> <li>At least 80% of participant survey respondents satisfied with the quality</li> </ul>	<ul style="list-style-type: none"> <li>Not met—88 domestic participants. Overall new event participation record set of 171 students. (32 domestic students short of target.)</li> <li>Exceeded—45 domestic students took a course for credit</li> </ul>	<ul style="list-style-type: none"> <li>Not met—88 domestic participants. (32 domestic students short of target)</li> <li>Nearly met—53 domestic students (5 domestic students short of target)</li> </ul>	1. KPI Not Met  2. KPI Nearly Met	N/A

**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
	of the school and courses (with a response rate of >50%)	<ul style="list-style-type: none"> <li>Exceeded—96% of those surveyed strongly agreed or agreed the school was of a high standard (response rate of 64% achieved)</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded – 97% of those strongly surveyed strongly agreed or agreed the school was of a high standard (53% response rate of achieved)</li> </ul>	3. KPI Met	
AMSI Winter School	<ul style="list-style-type: none"> <li>35 domestic participants</li> <li>At least 80% of participant survey respondents satisfied with the quality of the school and courses (with a response rate of greater than 50%)</li> </ul>	<ul style="list-style-type: none"> <li>Not met—18 domestic participants (2 domestics under target)</li> <li>Exceeded—100% of those surveyed strongly agreed or agreed the school was of a high standard (response rate of 78% achieved)</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded – 45 domestic participants</li> <li>Exceeded—100% of those surveyed strongly agreed or agreed the school was of a high standard (response rate of 51% achieved)</li> </ul>	1. KPI Met 2. KPI Met	N/A
AMSI BioInfoSummer	<ul style="list-style-type: none"> <li>130 domestic participants</li> <li>Participation by 3 partners outside of AMSI university membership and publicly owned research agencies or institutes (public and private hospitals may be included)</li> <li>Benefits of BioInfoSummer accrued by students, researchers and industry including potential collaborations (from a post-event survey)</li> <li>At least 70% of domestic students report having developed skills that will help them in their future career, or have a better understanding of their career options (with a response rate of &gt;50%)</li> </ul>	<ul style="list-style-type: none"> <li>Not met—98 participants (32 domestic participants under target)</li> <li>Met—participation by Pawsey Supercomputing Centre, EMBL-ABR and Decode Science</li> <li>Exceeded—78% of those surveyed strongly agreed or agreed the networking events were valuable (response rate of 51% achieved)</li> <li>Not met—57% of those surveyed strongly agreed or agreed the symposium presented relevant career/study content (domestic student response rate of 52%)</li> <li>Exceeded—92% of those surveyed strongly agreed or agreed the</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded – 166 domestic participants</li> <li>Met – participation by Australian BioCommons, BioC Asia and ABACBS.</li> <li>Nearly Met - 74% of those surveyed strongly agreed or agreed the networking events were valuable (response rate of 42% achieved)</li> <li>Met—82% of those surveyed strongly agreed or agreed the symposium presented relevant career/study content (domestic student response rate of 54%)</li> </ul>	1. KPI Met 2. KPI Met 3. KPI Nearly Met 4. KPI Met	N/A



**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
	<ul style="list-style-type: none"> <li>At least 80% of participant survey respondents satisfied with the quality of the event and speakers (with a response rate of &gt;50%)</li> </ul>	<p>symposium was of a high standard (response rate of 51% achieved)</p>	<ul style="list-style-type: none"> <li>Nearly met—93% of those surveyed strongly agreed or agreed the symposium was of a high standard (response rate of 42% achieved)</li> </ul>	5. KPI Nearly Met	
AMSI Optimise Symposium	<ul style="list-style-type: none"> <li>Participation by 3 partners outside of AMSI university membership and publicly owned research agencies or institutes</li> <li>90 participants in total including 75 domestic participants</li> <li>At least 70% of participant respondents report increasing their professional network after attending the event (with a response rate of &gt;50%)</li> <li>At least 70% of participant respondents report a greater understanding of how their research skills can be applied in industry (with a response rate of &gt;50%)</li> <li>At least 80% of participant respondents satisfied with the quality of the event and speakers (with a response rate of &gt;50%)</li> <li>At least 50% of survey respondents from industry satisfied with the quality of the event and speakers</li> </ul>	<ul style="list-style-type: none"> <li>Met—participation by Biarri, Country Fire Authority and IBM Research</li> <li>Exceeded—95 participants including 69 domestic participants</li> <li>Exceeded—72% of those surveyed strongly agreed or agreed the conference increased their professional network (response rate of 50% achieved)</li> <li>Exceeded—79% of those surveyed strongly agreed or agreed they had a greater understanding of how their research skills can be applied across industry (response rate of 50% achieved)</li> <li>Exceeded—94% of those surveyed strongly agreed or agreed the conference was of a high standard and the speaker content was engaging (response rate of 50% achieved)</li> <li>Exceeded—100% of those surveyed from industry were</li> </ul>	<ul style="list-style-type: none"> <li>Met—participation by Snowden Group, RPM Global and Optika Solutions</li> <li>Nearly met—99 participants including 73 domestic participants (2 domestic participants short)</li> <li>Exceeded—91% of those surveyed strongly agreed or agreed the conference increased their professional network (response rate of 56% achieved)</li> <li>Exceeded—86% of those surveyed strongly agreed or agreed they had a greater understanding of how their research skills can be applied across industry (response rate of 56% achieved)</li> <li>Exceeded—95% of those surveyed strongly agreed or agreed the conference was of a high standard and the speaker content was</li> </ul>	1. KPI Met 2. KPI Nearly Met 3. KPI Met 4. KPI Met 5. KPI Met	N/A

**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
		satisfied with the event quality and speakers	engaging (response rate of 56% achieved) <ul style="list-style-type: none"> <li>Exceeded—100% of those surveyed from industry were satisfied with the event quality and speakers</li> </ul>	6. KPI Met	
Sponsorship of research-training workshops for PhD students and early-career researchers.	<ul style="list-style-type: none"> <li>40 domestic participants who are PhD students or early-career researchers</li> <li>20 international keynote speakers</li> <li>12 workshops</li> </ul>	N/A	<ul style="list-style-type: none"> <li>Exceeded—161 domestic participants who are PhD or early-career researchers</li> <li>Exceeded—72 international keynote speakers</li> <li>Exceeded—16 workshops</li> </ul>	1. KPI Met 2. KPI Met 3. KPI Met	N/A
Activities supporting AMSI female and Aboriginal and Torres Strait Islander participation strategy	<ul style="list-style-type: none"> <li>Achieve a target of 30% overall and 20% domestic female student participation in the project activities</li> <li>At least 5 online resources for female and Aboriginal and Torres Strait Islander students and the size of their readership (by the web hits)</li> <li>4 events dedicated to female students in mathematical sciences held during the project activities</li> <li>At least 2 dedicated scholarships for female and at least 2 scholarships for Aboriginal and Torres Strait Islander students in the project activities</li> <li>Participation of 1 Aboriginal and Torres Strait Islander mathematical</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded—35% female participation</li> <li>Exceeded—32% (108 domestic female students from 335)</li> <li>Exceeded—70+ female and ATSI profiles placed on the AMSI website and social media</li> <li>Exceeded—5 diversity events dedicated to women and/or ATSI students to promote inclusion</li> <li>Exceeded—58 CHOOSEMATHS Grants &amp; 5 female Travel Grants (travel/accommodation/childcare)</li> <li>Met—2 ATSI Student Travel Grants available but only 1 awarded</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded—36% female participation</li> <li>Exceeded—21% (259 domestic females from 447)</li> <li>Exceeded—45+ female and ATSI profiles placed on the AMSI website and social media</li> <li>Exceeded—5 diversity events dedicated to women and/or ATSI students to promote inclusion</li> <li>Met—2 ATSI Student Travel Grants available but 0 awarded</li> </ul>	1. KPI Met 2. KPI Met 3. KPI Met 4. KPI Met 5. KPI Met	N/A

**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
	sciences student in the project activities	<ul style="list-style-type: none"> <li>Exceeded—2 ATSI students participated across all project activities</li> </ul>	<ul style="list-style-type: none"> <li>Exceeded—8 ATSI student participated across all project activities</li> </ul>	6. KPI Met	
Outreach and engagement with schools sector	<ul style="list-style-type: none"> <li>1 x participant case study for each activity</li> <li>The number of promotion events</li> <li>The number of primary and secondary schools engaged</li> <li>The size of the readership of Maths Ad(d)s, AMSI careers, AMSI website and social media promoting one participant case study (by the number of hits)</li> <li>Positive feedback from students about their increased understanding of the importance of mathematical sciences, educational pathways and careers available in these disciplines. The information will be collected through a school student survey.</li> </ul>	<ul style="list-style-type: none"> <li>Met—Case Studies/Student Profiles provided in every Report</li> <li>Met—57 CHOOSEMATHS promotion events &amp; 3 Public Lectures</li> <li>Met—CHOOSEMATHS: 138 schools engaged in 12 geographic regions (98 primary and 40 secondary)</li> <li>Met—please see Participation Strategy 2018–2019</li> <li>Met—Anonymous feedback surveys conducted for each public lecture event. See Participation Strategy 2018–2019 for Public Lecture photo.</li> </ul>	<ul style="list-style-type: none"> <li>Met—Case Studies/Student Profiles provided in every Report</li> <li>Met—17 CHOOSEMATHS promotion events &amp; 3 Public Lectures</li> <li>Met—CHOOSEMATHS: 120 schools engaged in 12 geographic regions (80 primary and 40 secondary)</li> <li>Met—please see Participation Strategy 2019–2020</li> <li>Not met – separate survey not conducted</li> </ul>	1. KPI Met 2. KPI Met 3. KPI Met 4. KPI Met 5. KPI Not Met	N/A
An independent review of both the 'Vacation Schools and Scholarships' and 'Securing Australia's Mathematical Workforce'	<ul style="list-style-type: none"> <li>The Recipient to submit the independent review's terms of reference, the independent reviewer and the review panel membership for approval by the Program Delegate.</li> <li>Project Delegate approval of the independent review's terms of reference, the independent</li> </ul>	N/A	<ul style="list-style-type: none"> <li>All KPIs met earlier in 2020 when review was supplied to Department of Education.</li> </ul>	1. KPI Met 2. KPI Met	N/A

**Table 1.3 Achievement of the project annual KPIs**

Activities	2019-20 KPIs	2018-19 performance (for reference)	2019-20 achievement against KPIs	Status	Revised Delivery date
projects, including a cost benefit analysis is commissioned.	<p>reviewer and review panel membership.</p> <ul style="list-style-type: none"> <li>• The independent review to be submitted to the Program Delegate by deadline.</li> <li>• The independent review covers all the Program's activities over 2016-17 to 2018-19 and all activities under the 'Vacation Schools and Scholarships'.</li> </ul>			<p>3. KPI Met</p> <p>4. KPI Met</p>	

#### 1.4 Unmet KPIs, milestones and activities

Where relevant, provide reasons for not meeting milestones and activities (Table 1.2), KPIs (Table 1.3) Identify actions taken to address this. Discuss the effect these delays may have on the project.

Unmet milestone, activity or KPI	Reasons	Strategy and action to address
<ul style="list-style-type: none"> <li>AMSI Vacation Research Scholarships</li> </ul>	Missed this KPI by 1 student due to competing internships being offered to students	Continue to promote VRS as broadly as possible to attract the widest audience of students
<ul style="list-style-type: none"> <li>AMSI Summer School 120 Domestic Participants</li> </ul>	Missed this KPI by 32 students due to: *International student cohort increasing nationally *Competition for domestic students over summer increasing with work-integrated learning *UNSW has moved to a trimester academic model *KPI set without due consideration	Continue to promote Summer School as broadly as possible to attract the widest audience of students
<ul style="list-style-type: none"> <li>AMSI Summer School 58 Domestic Participants taking a course for credit</li> </ul>	Missed this KPI by a small margin of 5 students due to smaller overall cohort of domestic students	Encourage more students to take courses for credit during the school
<ul style="list-style-type: none"> <li>AMSI BioInfoSummer Survey &gt;50% of participants</li> </ul>	Missed this KPI by a small margin of 8%. Due to high overall participation, survey was not completed by some attendees	Promote the survey and survey prize more at BioInfoSummer especially on last day of conference
<ul style="list-style-type: none"> <li>AMSI Optimise 75 Domestic Participants</li> </ul>	Missed this KPI by a small margin of 2 participants as this was Optimise event to be held in Perth	East Coast or virtual event location next time will increase overall participation
<ul style="list-style-type: none"> <li>Positive feedback from students about their increased understanding of the importance of mathematical sciences, educational pathways and careers available in these disciplines. The information will be collected through a school student survey.</li> </ul>	Unable to obtain email addresses of school students in attendance at public lectures.	Do a virtual short survey straight after public lecture whilst people are still seated.

## **2. Communication Activities**

Provide details on the communication activities you have undertaken during the reporting period. In your response describe any published and promotional material, media, or other activities that contribute to the project outcomes.

*Please see **AMSI Participation Strategy 2019–2020 Report** and **media sections** within event project report.*

### ***For the information of Departmental officers***

*We send out regular email promotions for our programs. Before 31 August, to be added to our mailing lists please contact Chloe Pearse, National Program Manager—Research and Higher Education:*  
[chloe.pearse@amsi.org.au](mailto:chloe.pearse@amsi.org.au)

*From 1 September, to be added to our mailing lists please contact Angela Coughlin, Acting National Program Manager—Research and Higher Education: [angela.coughlin@amsi.org.au](mailto:angela.coughlin@amsi.org.au)*

*For frequent updates on AMSI news please follow us on Facebook [@DiscoverAMSI](#) or Twitter [@DiscoverAMSI](#).*

### 3. Project Financial Reporting

#### 3.1 Budgeted vs Actual Income and Expenditure Statement

Reporting period: from 1/06/2019 to 30/06/2020

FULL BUDGET: Securing Australia's mathematical workforce		Commonwealth Contribution Project 003059	AMSI Contribution	Total	Comments
		1 June 2019 to 30 June 2020	1 June 2019 to 30 June 2020		
Opening Cash		-\$ 63,660	\$ 63,660	0	
Income Received and contributions to Operating Costs					
Grants funds from Commonwealth		\$ 511,716	0	\$ 511,716	
Interest Received		-\$ 61	0	-\$ 61	
Sponsorship Revenue Research Training Events		0	\$ 49,397	\$ 49,397	Optimise \$11k; Summer School \$38.5k
Women in Maths Scholarships		0	\$ 41,849	\$ 41,849	
AMSI Contribution to Operating Costs		0	\$ 533,739	\$ 533,739	
Total Received and/or available		\$ 511,655	\$ 624,985	\$ 1,136,640	
AMSI Project Staff Costs		\$ 236,586	0	\$ 236,586	Direct staff cost
Total AMSI Support Costs		\$ 157,583	\$ 63,181	\$ 220,764	Indirect staff cost & space charges
Total Research Training Schools		0	\$ 660,725	\$ 660,725	Summer School, Winter School & Vacation Research Scholarships
Research Training Symposia		0	\$ 43,434	\$ 43,434	BioInFoSummer & Optimise
Total AMSI funded-workshops (Jul 2019 - Jun 2020)			\$ 47,997	\$ 47,997	
Other Outgoings					
WIM Scholarships paid		0	\$ 41,849	\$ 41,849	
Commitments awaiting invoicing		0	\$ 44,460	\$ 44,460	AMSI funded-workshops \$35k; QUT Winter School \$9k
Reversal of Prior Year Commitments now paid		0	-\$ 213,000	-\$ 213,000	UNSW \$58k registration and \$140k Summer School event; USYD BioinfoSummer \$15k
Total Other Outgoings		0	-\$ 126,691	-\$ 126,691	
Total Expenses		\$ 394,169	\$ 688,645	\$ 1,082,813	
Income less expenses (unspent funds in Project as at 30 Jun 2020) - balance of project funds		\$ 53,826	0	\$ 53,826	

Cumulative Income and Expenditure 1 June 2016 to 30 June 2020		Commonwealth Contribution Project 003059	AMSI Contribution	Total	Comments
FULL BUDGET: Securing Australia's mathematical workforce		Cumulative total to 30 June 2020	Cumulative total to 30 June 2020		
Opening Cash 1 June 2016		0	0	0	
Income Received and contributions to Operating Costs					
Grant funds from Commonwealth		\$ 1,994,877	0	\$ 1,994,877	
Credit transfer from previous grant		\$ 25,492	0	\$ 25,492	
Interest Received		\$ 1,795	0	\$ 1,795	
Sponsorship Revenue Research Training Events		0	\$ 160,397	\$ 160,397	
AMSI Internship Placements		0	\$ 16,500	\$ 16,500	
Women in Maths Scholarships		0	\$ 242,623	\$ 242,623	
AMSI Contribution to Operating Costs		0	\$ 2,097,285	\$ 2,097,285	
Registration Income		0	\$ 76,650	\$ 76,650	
Total Received and/or available		\$ 2,022,164	\$ 2,593,455	\$ 4,615,619	
AMSI Project Staff Costs		\$ 1,137,899	\$ 93,354	\$ 1,231,253	
Total AMSI Support Costs		\$ 830,439	\$ 198,486	\$ 1,028,925	
Total Research Training Schools		0	\$ 1,758,813	\$ 1,758,813	
Research Training Symposia		0	\$ 207,723	\$ 207,723	
Total AMSI funded-workshops (Jul 2019 - Jun 2020)			\$ 47,997	\$ 47,997	
Other Outgoings					
WIM Scholarships		0	\$ 242,623	\$ 242,623	
Commitments awaiting invoicing		0	\$ 44,460	\$ 44,460	
Total Expenses		\$ 1,968,337	\$ 2,593,454	\$ 4,561,792	AMSI has contributed \$2,593,455 as at 30 June 2020, which is 256.50% of the 50% requirement of \$1,011,081.76
Income less expenses, balance of Grant account as at 31 May 2019 after adjustments yet to be processed		\$ 53,826	0	\$ 53,826	

### **3.2 Additional budget reporting (if required)**

Please provide advice on any variation to the budget. Consider the project's current financial position, or the position going forward. Where funds have not been spent, or overspent, provide a brief description of why and what strategies are in place to ensure the ongoing financial management of committed and uncommitted funding.

In particular, please identify any unspent funds due to COVID-19.

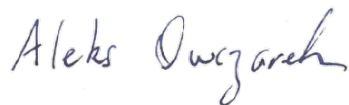
*AMSI has contributed \$2,593,454 to the Program activities to 30 June 2020. This is considerably more than the 50% of Commonwealth contribution requirement (Or \$1.01m)*

*There have been no unspent grant funds due to COVID-19.*

## **4. Declaration**

Referencing item 6(c) of the Conditions of Grant, I Aleks Owczarek, on behalf of the University of Melbourne the lead agent for the Australian Mathematical Sciences Institute, hereby declare that this report is, to the best of my knowledge and given my authority within my situation, a true and accurate statement on the status of the project.

Signed



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Name: Professor Aleks Owczarek

Position: Lead Agent - Dean, Faculty of Science, University of Melbourne

Date: 14 August 2020