



## Faculty Research Grant 2023 (FRG23) Award Agreement

**Issue Date:** 20 February 2023  
**Proposal Number:** FRG23-C-S68  
**Grant Period:** 1 June 2023 – 31 May 2025  
**Grant Title:** *“Anomaly and Fraud Detection in Blockchain and Cryptocurrency Networks”*

Dear Prof. Chan,

As expected, this year’s FRG proposal process has proven increasingly competitive. FRG23 proposals have been reviewed through a rigorous evaluation process. First, more than 400+ external review reports were solicited for comprehensive type proposals. Internal panels were assembled to assess exploratory type proposals. Finally, award decisions were made based on the reviews, panels’ recommendations, and funding availability. I am pleased to inform you that your proposal is recommended for funding by the FRG23 Program. **In order to accept this award, please carefully and thoroughly review, sign, and return this agreement as acceptance of this award.**

### Grant Parameters:

	YR1 (AY23/24)	YR2 (AY24/25)	Total
PI Course Release (Stephen Chan)	1	0	1
Awarded Budget (AED)	153,145	95,655	248,800

### Notes:

1. The final version of your awarded budget is included with this Agreement; the total award value is no longer negotiable.
2. Your Grant Fund number will be established by the Finance Office. Using the fund number, PI can track and monitor grant budget via <https://financesrv.aus.edu/WebFinancials/logon.aspx>
3. All funds, including cash, course release(s), and GRA(s) are contingent upon the availability of funds. Course release(s) are also contingent upon college teaching capacity.
4. Course Releases: Contact your dean’s office for any inquiry with regard to the specifics of course release(s) listed.
5. We expect that year-1 funds (i.e., cash, graduate research assistantship(s) and course release(s)) will be released at the start of your project on **1 June 2023**.

We greatly appreciate your participation in this proposal competition. We commend your commitment to research and creative endeavors at AUS, and wish you the best in implementing your project sponsored by the AUS FRG program.

Sincerely,

**Juan M. Sanchez, PhD**  
Provost and Chief Academic Officer



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**By signing below: I certify that I have read, understand and shall operate in accordance with all applicable AUS policies and procedures, including but not limited to:**

*(need to be logged in first to access iLearn links)*

- [AUS Research Policy 10.1, 10.2, and 10.3](#)
- [Faculty Research Grant - Terms & Conditions](#)
- [AUS Policy 10: Business Travel](#) and [Finance Policy 15: Business Meals and Entertainment](#)
- [Required Responsibilities for Researchers at AUS](#)

By checking this box, I certify that I understand my roles and responsibilities as project PI, according to AUS Research Policy 10.1 section IV.

Name of Principal Investigator: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

CC: Dr. Jeanette Vinke, Chief Operating Officer  
Dr. Mohamed El-Tarhuni, Vice Provost for Research & Graduate Studies  
Mr. Mobeen Ihsan, Director of Finance  
Dr. Mahmoud Anabtawi, Dean of College of Arts & Sciences  
Dr. Abdul Jarrah, Head of the Department of Mathematics & Statistics

Program:  
Project Title:  
Project Size

FRG23  
Anomaly and Fraud Detection in Blockchain a  
Comprehensive

PI: Stephen Chan  
Co-Is: Professor Saralees Nadarajah; Professort Jeffrey Ch  
Period: 1 June 2023 - 31-May-25

Section I: Cash & GRA Budget

Acct No.	Description	Details	Year 1	Year 2	Year 3	Total
<b>A. SALARIES &amp; BENEFITS</b>						
<b>A.1. Salaries</b>						
51111	Research Personnel/Employees	A Senior Research Associate, 12 months, Full time	100,000	60,000	0	160,000
51113	Post- Doc	[insert # PD, duration]	0	0	0	0
51166	UG Student Employment	[insert #students and duration] Suggested Hourly rate *25AED/HR	0	0	0	0
51167	Graduate Student Employment	[insert #students and duration] Suggested Hourly rate *50AED/HR	0	0	0	0
51170	Overtime Pay	[e.g. AUS Lab Technicians]	0	0	0	0
<b>Total A.1 Salaries</b>			<b>100,000</b>	<b>60,000</b>	<b>0</b>	<b>160,000</b>
<b>A.2. Benefits</b>						
51250	Fringe Benefits - Research Personnel		15,000	9,000	0	24,000
51250	Fringe Benefits - Post-Doc		0	0	0	0
<b>Total A.2 Fringe Benefits</b>			<b>15,000</b>	<b>9,000</b>	<b>0</b>	<b>24,000</b>
<b>Total A. Salaries &amp; Benefits</b>			<b>115,000</b>	<b>69,000</b>	<b>0</b>	<b>184,000</b>
<b>B. GRADUATE RESEARCH ASSISTANSHIPS</b>						
51162	Graduate Assistantships Stipends		0	0	0	0
57315	GA Tuition Remission		0	0	0	0
<b>Total B. Graduate Research Assistantships</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>C. CONSULTANTS &amp; SUB-AWARDS</b>						
	Subcontracts / Sub-awards (>100K AED)	[name of subawardee]	0	0	0	0
	Subcontracts / Sub-awards (<100K AED)	[name of subawardee]	0	0	0	0
56130	Honorarium Fees	[name of recipient(s)]	0	0	0	0
56150	Consulting	[name/role of consultant(s)]	0	0	0	0
<b>Total C. Consultants &amp; Sub-awards</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>D. NON-CAPITAL EQUIPMENT (&lt;10,000 AED per item), MATERIALS &amp; SUPPLIES</b>						
52115	Instructional Supplies		0	0	0	0
52116	Chemicals/Compounds & Lab Supplies		0	0	0	0
52120	Computer Software		0	0	0	0
53112	Equip & Supplies Maint - Offices		0	0	0	0
59203	Non-Capital Machinery And Equipment **		0	0	0	0
59204	Non-Capital Lab Equipment		0	0	0	0
59205	Non-Capital Computers And Accessories	2 x SanDisk Extreme Portable SSD USB-C 4TB (4,200 AED); INK TONER FOR HP COLOR LASERJET PRO (1000 AED)	4,200	1,000	0	5,200
<b>Total D. Non-Capital Equipment (&lt;10,000 AED) Materials &amp; Supplies</b>			<b>4,200</b>	<b>1,000</b>	<b>0</b>	<b>5,200</b>
<b>E. TRAVEL</b>						
54110	Business Travel - Local		0	0	0	0
54120	Hired Vehicle/Taxi		0	0	0	0
54130	Petrol		0	0	0	0
54210	Business Travel - International		25,000	10,000	0	35,000
	Flight:	[(Dubai - Manchester); (Dubai - Hong Kong); (Dubai - China), 1 person]	10,000	3,000	0	13,000
	Accommodation:	[Total 35 nights, Manchester; Hong Kong; China]	8,000	4,000	0	12,000
	Meals and Incidentals/Per Diem [35 days]	Visa fee: No need	7,000	3,000	0	10,000
			0	0	0	0
54150	Incidental Travel Expenses		0	0	0	0
54250	Conference Registration	[2023 Blockchain and cryptocurrency conference; Blockchain Cybercrime 2024; IMS Asia Pacific Rim Meeting 2024]	0	1,000	0	1,000
<b>Total E. Travel</b>			<b>25,000</b>	<b>11,000</b>	<b>0</b>	<b>36,000</b>
<b>F. OTHER COSTS</b>						
56190	Other Fees and Subscriptions	Journal Publication (Open Source); Dashboard (Website); Internal workshop cost	8,945	14,655	0	23,600
55123	Postage & Courier		0	0	0	0
54420	Foreign Freight Charges		0	0	0	0
54430	Customs And Clearing		0	0	0	0
<b>Total F. Other Costs</b>			<b>8,945</b>	<b>14,655</b>	<b>0</b>	<b>23,600</b>
<b>Section I. Total Cash Budget</b>			<b>153,145</b>	<b>95,655</b>	<b>0</b>	<b>248,800</b>
<b>Total GRA Budget</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Budget (Cash+GRA)</b>			<b>153,145</b>	<b>95,655</b>	<b>0</b>	<b>248,800</b>

Section II: Awarded Course Release (CR)

Full Name	Role (PI, CO-I)	YR 1	YR 2	YR 3	Total
Stephen Chan	PI	1	0	0	1
		0	0	0	0
		0	0	0	0
<b>SECTION II. Awarded Course Release (CR) Total</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>