

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B	This return/report is: ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C	If the plan is a collectively-bargained plan, check here. ▶ ☐
D	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E	If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. ▶ ☐

Part II	Basic Plan Information—enter all requested information		
1a	Name of plan QUANTUM 401(K) PROFIT SHARING PLAN	1b	Three-digit plan number (PN) ▶ 002
		1c	Effective date of plan 07/01/1987
		2b	Employer Identification Number (EIN) 63-0956857
		2c	Plan Sponsor's telephone number 256-971-1800
		2d	Business code (see instructions) 541990
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) QUANTUM RESEARCH INTERNATIONAL, INC. 991 DISCOVERY DRIVE HUNTSVILLE, AL 35806		

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	07/10/2024	D. FRANK PITTS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	07/10/2024	D. FRANK PITTS
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☒ Same as Plan Sponsor		3b Administrator's EIN
		3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name		4b EIN 4d PN
5 Total number of participants at the beginning of the plan year		5 494
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 370
a(2) Total number of active participants at the end of the plan year		6a(2) 347
b Retired or separated participants receiving benefits		6b 4
c Other retired or separated participants entitled to future benefits.....		6c 137
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 488
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 3
f Total. Add lines 6d and 6e		6f 491
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 370
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 42
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2A 2E 2F 2G 2J 2K 2R 2T 3D 3H		
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:		
9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor		9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)		
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary		b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☐ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023		
A Name of plan QUANTUM 401(K) PROFIT SHARING PLAN	B Three-digit plan number (PN) ▶	002
C Plan sponsor's name as shown on line 2a of Form 5500 QUANTUM RESEARCH INTERNATIONAL, INC.	D Employer Identification Number (EIN) 63-0956857	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).. ☐ Yes ☒ No
- b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

HILL FOGG & ASSOCIATES, PC

63-0857231

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 11	ACCOUNTANT	16170	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

MERRILL LYNCH, PIERCE, FENNER AND S

13-5674085

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 51 52 59 60 62 63 71 72	RECORDKEEPER	6922	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
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(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
For calendar plan year 2022 or fiscal plan year beginning <u>10/01/2022</u> and ending <u>09/30/2023</u>		
A Name of plan <u>QUANTUM 401(K) PROFIT SHARING PLAN</u>		B Three-digit plan number (PN) <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>QUANTUM RESEARCH INTERNATIONAL, INC.</u>		D Employer Identification Number (EIN) <u>63-0956857</u>

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a	135	75
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	1698821	1697419
(2) Participant contributions.....	1b(2)	87218	76891
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)	5519847	4437385
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans.....	1c(8)	220222	204465
(9) Value of interest in common/collective trusts.....	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts.....	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	15840688	18078210
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)	7809787	7309407

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	31176718	31803852

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	31176718	31803852
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	1697419	
(B) Participants	2a(1)(B)	2209008	
(C) Others (including rollovers)	2a(1)(C)	165334	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		4071761
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	14352	
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	12567	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		26919
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	705130	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		705130
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		1446442
c Other income	2c		826669
d Total income. Add all income amounts in column (b) and enter total	2d		7076921
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	6244925	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		6244925
f Corrective distributions (see instructions)	2f		2192
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	202670	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		202670
j Total expenses. Add all expense amounts in column (b) and enter total	2j		6449787
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		627134
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: HILL, FOGG AND ASSOCIATES, PC

(2) EIN: 63-0857231

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)

	Yes	No	Amount
4a		X	

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)			
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☐ No ☐ Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 10/01/2022 and ending 09/30/2023		
A Name of plan QUANTUM 401(K) PROFIT SHARING PLAN		B Three-digit plan number (PN) ► 002
C Plan sponsor's name as shown on line 2a of Form 5500 QUANTUM RESEARCH INTERNATIONAL, INC.		D Employer Identification Number (EIN) 63-0956857
Part I	Distributions	
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 94-1687665		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....		3
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☐ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived).....		6a
b Enter the amount contributed by the employer to the plan for this plan year.....		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☐ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☐ Increase ☐ Decrease ☐ Both ☐ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?..... ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock?..... ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)..... ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?..... ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
	a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a	
	b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
	c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year.....	15a	
	b The corresponding number for the second preceding plan year.....	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c) a Enter the percentage of plan assets held as: Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____% b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____
20	PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation _____

QUANTUM 401(K) PROFIT SHARING PLAN
FINANCIAL STATEMENTS
SEPTEMBER 30, 2023 AND 2022

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INDEPENDENT AUDITORS' REPORT

To the Plan Administrator
Quantum 401(k) Profit Sharing Plan
Huntsville, Alabama

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit

We have performed audits of the accompanying financial statements of Quantum 401(k) Profit Sharing Plan, an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) [ERISA Section 103(a)(3)(C) audit]. The financial statements comprise the statements of net assets available for benefits as of September 30, 2023 and 2022, and the related statement of changes in net assets available for benefits for the year ended September 30, 2023, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of Quantum 401(k) Profit Sharing Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audits need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of September 30, 2023 and 2022, and for the year ended September 30, 2023, stating that the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the Auditors' Responsibilities for the Audit of the Financial Statements section—

- the amounts and disclosures in the financial statements referred to above, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.
- the information in the financial statements referred to above related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of Quantum 401(k) Profit Sharing Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about Quantum 401(k) Profit Sharing Plan's ability to continue as a going concern for one year after the date the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments; administering the plan; and determining that the plan's transactions that are presented and disclosed in the financial statements are in conformity with the plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditors' Responsibilities for the Audit of the Financial Statements

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Quantum 401(k) Profit Sharing Plan's internal control. Accordingly, no such opinion is expressed.

- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about Quantum 401(k) Profit Sharing Plan's ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of accounting principles generally accepted in the United States of America.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Supplemental Schedule Required by ERISA

The supplemental schedule of Schedule H, Line 4i – Schedule of Assets (Held at End of Year) as of September 30, 2023 is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information included in the supplemental schedule, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with generally accepted auditing standards. For information included in the supplemental schedule that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedule, we evaluated whether the supplemental schedule, other than the information agreed to or derived from the certified investment information, including their form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion—

- the form and content of the supplemental schedule, other than the information in the supplemental schedule that agreed to or is derived from the certified investment information, is presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

- the information in the supplemental schedule related to assets held by and certified to by a qualified institution agrees to or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Hill Fogg & Associates, P.C.

Huntsville, Alabama
July 8, 2024

QUANTUM 401(K) PROFIT SHARING PLAN
STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
AS OF SEPTEMBER 30, 2023 AND 2022

	<u>2023</u>	<u>2022</u>
ASSETS		
Participant directed investments, at fair value (see Note 3)	\$ 29,825,077	\$ 29,170,457
Receivables		
Employer contributions	1,697,419	1,698,821
Participant contributions	76,891	87,218
Notes receivable from participants	<u>204,465</u>	<u>220,222</u>
Total receivables	<u>1,978,775</u>	<u>2,006,261</u>
TOTAL ASSETS	31,803,852	31,176,718
LIABILITIES		
Excess contributions payable	<u>17,454</u>	<u>2,191</u>
TOTAL LIABILITIES	<u>17,454</u>	<u>2,191</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 31,786,398</u></u>	<u><u>\$ 31,174,527</u></u>

See accompanying independent auditors' report and notes to the financial statements

QUANTUM 401(K) PROFIT SHARING PLAN
STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
FOR THE YEAR ENDED SEPTEMBER 30, 2023

	2023
ADDITIONS	
Additions to net assets attributed to:	
Investment income:	
Net appreciation in fair value of investments	\$ 2,243,629
Interest and dividends	719,394
Total investment income	2,963,023
Interest income on notes receivable from participants	12,567
Participant directed contributions:	
Employer	1,530,465
Participant salary deferrals	2,193,192
Participant rollovers	165,334
Total contributions	3,888,991
TOTAL ADDITIONS	6,864,581
DEDUCTIONS	
Deductions from net assets attributed to:	
Benefits paid to participants	6,232,631
Administrative expenses	20,079
TOTAL DEDUCTIONS	6,252,710
NET INCREASE IN NET ASSETS	611,871
NET ASSETS AVAILABLE FOR BENEFITS:	
Beginning of year	31,174,527
End of year	\$ 31,786,398

See accompanying independent auditors' report and notes to the financial statements

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS
SEPTEMBER 30, 2023 AND 2022

NOTE 1 – DESCRIPTION OF PLAN

The following description of the Quantum 401(k) Profit Sharing Plan (the Plan) provides only general information. Participants should refer to the Plan Agreement for a more complete description of the Plan's provisions.

Date of Management's Review

Management has evaluated subsequent events through July 8, 2024, the date on which the financial statements were available to be issued.

General

The Plan is a defined contribution plan available to qualifying employees of Quantum Research International, Inc., Quantum Technologies, Inc., Insanity Skate, Inc., Southern Pride Services, Inc. and Sentry Construction, LLC (the Company). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA). The Plan Sponsor is responsible for oversight of the Plan.

Eligibility

Participation in the Plan is available to all eligible employees who have a minimum of one hour of service and have attained 21 years of age. Employees classified as QRI Logistical Services Group, Insanity Skate, Inc., Sentry Construction, LLC, and Southern Pride Services, Inc. are excluded for purposes of employer contributions.

Contributions

Each year, participants may contribute up to 75% of annual compensation, as defined by the Plan, up to maximum amounts established by the Internal Revenue Service (IRS). Participants age 50 or older during the Plan year are eligible to make catch-up contributions, up to maximum amounts established by the IRS. Participants may also contribute amounts representing distributions from other qualified plans, as defined by the Plan.

Participants may designate some or all of the salary deferral as a Roth deferral at the time the participant makes his or her deferral election. Once made, the election is irrevocable (that is, a Roth deferral cannot later be re-characterized as a pretax salary reduction). The amount of the Roth deferral is included in participants' income for tax purposes, and the income tax withholding amounts are deducted from the remainder of compensation, not from the Roth deferral amount.

Each plan year, the Company may make discretionary matching contributions based on a percentage of the participant's elective contributions. For the years ended September 30, 2023 and 2022, the Company's matching contribution formula was 50% of participant deferrals up to 10% of compensation. The Company made a matching contribution of \$778,535 and \$792,368 for the years ended September 30, 2023 and 2022, respectively. The Company may also elect to make a discretionary profit sharing contribution based on eligible compensation. The Company made a profit sharing contribution of \$918,884 and \$906,453 for the years ended September 30, 2023 and 2022, respectively.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 1 – DESCRIPTION OF PLAN (CONTINUED)

Participant Accounts

Each participant's account is credited with the participant's contributions and an allocation of the Company's contributions and Plan earnings. Participant accounts are charged with an allocation of administrative expenses that are paid by the Plan. Allocations are based on participant earnings, account balances, or specific participant transactions, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Investment Options

Participants direct the investment of their contributions, as well as Company contributions, into various investment options offered by the Plan. As of September 30, 2023 and 2022, the Plan offered a variety of investment options to its participants including core investments, model portfolios, and a participant-directed brokerage option. Participants may make changes in their investment elections at any time.

Vesting

Participants are vested immediately in their voluntary contributions, plus actual earnings thereon. Vesting in the Company's discretionary matching and profit sharing contributions is based on years of continuous service. A participant is 100% vested after four years of creditable service.

Notes Receivable from Participants

Participants may borrow from their fund accounts a minimum of \$1,000 up to a maximum equal to the lesser of a) \$50,000 reduced by excess (if any) of the highest outstanding balance of loans from the Plan on the date the loan is made, or b) 50% of their vested account balance. The loan is secured by the balance in the participant's account and bears interest at prime plus 1% which is fixed on the day the loan is requested. A loan is considered in default if the missed loan payment is not remitted at the time the required payment is due. Principal and interest are paid ratably at least quarterly, usually through payroll deductions. Loan terms may not be greater than five years unless the loan is used for purchase of primary residence. The maximum number of loans a participant may have outstanding at any time is two.

Payment of Benefits

Benefits commence upon one of several dates: retirement, disability, death, or termination of employment. Benefits are distributed by means of either direct rollover or lump sum distribution equal to the value of the participant's vested interest in his or her account.

Hardship Withdrawals

Participants are allowed withdrawals in the event of hardship due to immediate and heavy financial need as permitted by the U.S. Treasury regulations.

Forfeited Accounts

As of September 30, 2023 and 2022, forfeited non-vested accounts totaled \$166,663 and \$182,432, respectively. Forfeited accounts are first used to reduce employer contributions; second, any remaining forfeitures shall be used to offset the Plan's administrative costs; and third, any remaining forfeitures shall be allocated to participants. The amount of forfeitures used to reduce employer contributions was \$166,954 and \$182,433 for the years ended September 30, 2023 and 2022, respectively.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 2 – SUMMARY OF ACCOUNTING POLICIES

Basis of Accounting

The financial statements of the Plan are prepared under the accrual method of accounting.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America (GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosures of contingent assets and liabilities. Accordingly, actual results may differ from those estimates.

Investment Valuation and Income Recognition

The Plan's investments in all of the funds are presented at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 4 for discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation/depreciation includes the Plan's gains and losses on investments bought, sold, and held during the year.

Notes Receivable from Participants

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of September 30, 2023 or 2022. If a participant ceases to make loan repayments and the Plan Administrator deems the participant loan to be in default, the participant loan balance is reduced and a benefit payment is recorded.

Excess Contributions Payable

Amounts payable to participants for contributions in excess of amounts allowed by the IRS are recorded as a liability with a corresponding reduction to contributions. Excess contributions payable totaled \$17,454 and \$2,191 as of September 30, 2023 and 2022, respectively.

Payment of Benefits

Benefit payments to participants are recorded when paid.

Administrative Expenses

Certain expenses related to the administration of the Plan are allocated to the participant's account, in accordance with the Plan document, and are included in administrative expenses. Fees related to the administration of notes receivable from participants and payment of benefits to participants are charged directly to the participant's account and are included in administrative expenses. Investment related expenses are included in net appreciation/depreciation of fair value of investments.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 2 – SUMMARY OF ACCOUNTING POLICIES (CONTINUED)

Concentration of Market Risk

As of September 30, 2023, approximately 14% of the Plan's investments balance was comprised of one registered investment. As of September 30, 2022, approximately 18% of the Plan's investments balance was comprised of one registered investment. The underlying value of the investments is dependent on the performance of the individual investment holding and the market's evaluation of such performance. It is at least reasonably possible that changes in the fair value of the registered investments and their investment holdings in the near term could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits and the statement of changes in net assets available for benefits.

NOTE 3 – INFORMATION CERTIFIED BY THE TRUSTEE (UNAUDITED)

The following is a summary of the Plan's asset information as of September 30, 2023 and 2022, and for the year ended September 30, 2023, included throughout the Plan's financial statements and supplemental schedule, that was prepared by or derived from information provided by the Trustee and supplied to the Plan Administrator. The Plan Administrator has obtained a certification from the Trustee, Bank of America, N.A., that information provided to the Plan Administrator by the Trustee related to the following assets is complete and accurate. Accordingly, as permitted by 29 CFR 2520.103-8 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA, the Plan Administrator instructed the Plan's independent auditors not to perform any auditing procedures with respect to information in Notes 3 and 4, which appears throughout the financial statements and supplemental schedule related to the following assets:

	<u>2023</u>	<u>2022</u>
Investments at fair value:		
Cash and cash equivalents	\$ 6,922,560	\$ 8,048,824
Mutual funds	20,575,183	18,708,822
Corporate bonds	264,881	259,158
Common stock	2,062,453	2,153,653
Total investments at fair value	<u>\$ 29,825,077</u>	<u>\$ 29,170,457</u>
Notes receivable from participants	<u>\$ 204,465</u>	<u>\$ 220,222</u>

Bank of America, N.A. also certified to the completeness and accuracy of \$2,243,629 of net appreciation in fair value of investments and \$719,394 of interest and dividends related to the aforementioned assets, including \$12,567 of interest on participant loans, for the year ended September 30, 2023.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 4 – FAIR VALUE MEASUREMENTS

Financial Accounting Standards Board (FASB) ASC 820, *Fair Value Measurements and Disclosures*, establishes a framework for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3).

The three levels of the fair value hierarchy under FASB ASC 820 are described as follows:

Level 1 – Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 – Inputs to the valuation methodology include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in inactive markets, inputs other than quoted prices that are observable for the asset or liability, and inputs that are derived principally from or corroborated by observable market data by correlation or other means. If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 – Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodologies used for assets measured at fair value. There have been no changes in the methodologies used during the years ended September 30, 2023 or 2022.

Mutual funds: Valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are open-end mutual funds that are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value (NAV) and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded.

Certificates of deposit: Valued at the amount of the deposit plus accrued interest.

Corporate bonds: Valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing value on yields currently available on comparable securities of issuers with similar credit ratings.

Common stock: Valued at the closing price reported on the active market on which the individual securities are traded.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 4 – FAIR VALUE MEASUREMENTS (CONTINUED)

As required by FASB ASC 820, the Plan's portfolio investments were classified as follows, based on fair values at September 30, 2023 and 2022:

<u>Investment Level</u>	<u>2023</u>	<u>2022</u>
Level 1 Investments		
Cash and cash equivalents	\$ 6,922,560	\$ 8,048,824
Mutual funds	20,575,183	18,708,822
Corporate bonds	264,881	259,158
Common stock	2,062,453	2,153,653
Total Level 1 Investments	29,825,077	29,170,457
Level 2 Investments	-	-
Level 3 Investments	-	-
Total assets in the fair value hierarchy	29,825,077	29,170,457
Investments at fair value	<u>\$ 29,825,077</u>	<u>\$ 29,170,457</u>

NOTE 5 – RELATED PARTY TRANSACTIONS

Certain Plan investments are shares of mutual funds managed by Bank of America, N.A. Bank of America, N.A. is the Trustee as defined by the Plan, and therefore, these investment transactions qualify as party-in-interest transactions. Fees paid by the Plan for the investment management services totaled \$20,079 for the year ended September 30, 2023. The Company performs all administrative duties for the Plan.

NOTE 6 – PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants would become 100% vested in their employer contributions.

NOTE 7 – TAX STATUS

The IRS has determined and informed the Company by a letter dated June 30, 2020, that the Plan and related trust are designed in accordance with applicable sections of the Internal Revenue Code (IRC). Although the Plan has been amended since receiving the determination letter, the Plan Administrator and the Plan's tax counsel believe that the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC, and therefore, believe that the Plan is qualified, and the related trust is tax-exempt.

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan Administrator has analyzed the tax positions taken or expected to be taken that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

See accompanying independent auditors' report

QUANTUM 401(K) PROFIT SHARING PLAN
NOTES TO FINANCIAL STATEMENTS – CONTINUED
SEPTEMBER 30, 2023 AND 2022

NOTE 8 – RECONCILIATION OF FINANCIAL STATEMENTS TO FORM 5500

The following is a reconciliation of net assets available for benefits per the financial statements at September 30, 2023 and 2022 to Form 5500:

	2023	2022
Net assets available for benefits per the financial statements	\$ 31,786,398	\$ 31,174,527
Excess contributions payable	17,454	2,191
Net assets available for benefits per the Form 5500	<u>\$ 31,803,852</u>	<u>\$ 31,176,718</u>

The following is a reconciliation of the net increase in net assets per the financial statements for the year ended September 30, 2023 to Form 5500:

	Year Ended December 31, 2023
Net increase in net assets available for benefits per the financial statements	\$ 611,871
Excess contributions payable	15,263
Net income per the Form 5500	<u>\$ 627,134</u>

NOTE 9 – RISKS AND UNCERTAINTIES

The Plan invests in various investment securities. Investment securities are exposed to various risks, such as interest rate, market and credit risks. Market risks include global events which could impact the value of investment securities, such as a pandemic or international conflict. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants' account balances and the amounts reported in the statements of net assets available for benefits and the statement of changes in net assets available for benefits.

See accompanying independent auditors' report

SUPPLEMENTAL SCHEDULE

QUANTUM 401(K) PROFIT SHARING PLAN**Schedule H, Line 4i – Schedule of Assets (Held at End of Year)****Employer Identification Number: 63-0956857****Plan Number: 002****September 30, 2023**

(b) Identity of Issuer, Borrower, Lessor or		(c) Description of Investment		(e) Current	
(a)	Similar Party	Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost		Value
* Merrill Lynch		Merrill Lynch Retirement Bank Account	**	\$	4,437,385
* Merrill Lynch		Merrill Lynch Pending Settlement Fund	**		75
JP Morgan		JP Morgan Large Cap Growth Fund A	**		804,228
JP Morgan		JP Morgan Large Cap Growth Fund A GM	**		964,776
TCW		TCW Total Return Bond Fund	**		175,383
First Eagle		First Eagle Global Fund	**		446,160
Janus		Janus Henderson Triton Fund A	**		278,919
Janus		Janus Henderson Triton Fund A GM	**		221,787
Lord Abbett		Lord Abbett Total Return Fund A	**		324,510
Lord Abbett		Lord Abbett Total Return A GM	**		2,245,270
Ivy		Ivy High Income Fund Y	**		198,996
Ivy		Ivy Small Cap Core Fund Y	**		477,076
Ivy		Ivy Small Cap Core Fund Y GM	**		373,484
Principal		Principal MidCap Fund A	**		929,925
Principal		Principal MidCap Fund A GM	**		1,158,295
Lazard		Lazard International Strategic Open	**		725,087
Lazard		Lazard International Strategic Open GM	**		1,755,922
PIMCO		PIMCO StockPlus Small Fund A	**		272,696
Ishares		Ishares S&P 500 Index INSTL	**		2,452,380
Ishares		Ishares S&P 500 Index INSTL GM	**		1,243,957
Loomis		Loomis Sayles Ltd Trm Gov & Ag	**		74,439
Loomis		Loomis Sayles Ltd Trm Gov & Ag GM	**		2,175,302
PIMCO		PIMCO Total Return Fund A	**		779,618
* Merrill Lynch		Participant-Directed Brokerage Accounts	**		7,309,407
* Participant loans		Interest rates at 4.25-9.50%; maturities of 1-5 years	-0-		204,465
				\$	30,029,542

* Represents a party-in-interest to the Plan.

** Cost information has not been disclosed as all investments are participant directed.

See accompanying independent auditors' report

Attachment to 2022 Form 5500
Schedule H, line 4i - Schedule of Assets (Held At End of Year)

Plan Name: Quantum 401(k) Profit Sharing Plan
Plan Sponsor's Name: Quantum Research International, Inc.

EIN:63-0956857
PN:002

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current Value
	ACCRUED INCOME	ACCRUED INCOME	95	95
	RETIREMENT BANK ACCOUNT	CERT OF DEPOSIT / BANK DEPOSIT	4,132,368	4,132,368
	RETIREMENT BANK ACCOUNT GM	CERT OF DEPOSIT / BANK DEPOSIT	304,922	304,922
	LOAN FUND	LOANS	204,465	204,465
	DELAWARE IVY HIGH INCOME FD Y	MUTUAL FUNDS	233,335	198,996
	DELAWARE IVY SMID CAP CORE N	MUTUAL FUNDS	538,644	477,076
	DELAWARE IVY SMID CP CORE N GM	MUTUAL FUNDS	438,171	373,484
	FIRST EAGLE GLOBAL FD CL A	MUTUAL FUNDS	441,155	446,160
	ISHARES S&P 500 INDEX FD INSTL	MUTUAL FUNDS	1,902,107	2,452,380
	ISHARES S&P 500 INDEX INSTL GM	MUTUAL FUNDS	985,548	1,243,957
	JANUS HENDERSON TRITON FD A GM	MUTUAL FUNDS	256,272	221,787
	JANUS HENDERSON TRITON FUND A	MUTUAL FUNDS	322,334	278,919
	JPMORGAN LARGE CAP GROWTH A GM	MUTUAL FUNDS	887,086	964,775
	JPMORGAN LARGE CAP GROWTH FD A	MUTUAL FUNDS	697,743	804,228
	LAZARD INTL STRATEGIC CL OPEN	MUTUAL FUNDS	757,942	725,087
	LAZARD INTL STRTG CL OPEN GM	MUTUAL FUNDS	1,815,243	1,755,922
	LOOMIS SAYL LD TRM GOV & AG GM	MUTUAL FUNDS	2,288,910	2,175,302
	LOOMIS SAYLES LTD TRM GOV & AG	MUTUAL FUNDS	77,971	74,439
	LORD ABBETT TOTAL RETURN A GM	MUTUAL FUNDS	2,619,438	2,245,270

Attachment to 2022 Form 5500
Schedule H, line 4i - Schedule of Assets (Held At End of Year)

Plan Name: Quantum 401(k) Profit Sharing Plan
Plan Sponsor's Name: Quantum Research International, Inc.

EIN:63-0956857
PN:002

(a)	(b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value.	(d) Cost	(e) Current Value
	LORD ABBETT TOTAL RETURN FD A	MUTUAL FUNDS	352,602	324,510
	PIMCO STOCKSPPLUS SMALL FUND A	MUTUAL FUNDS	350,240	272,696
	PIMCO TOTAL RETURN FUND CL A	MUTUAL FUNDS	943,493	779,618
	PRINCIPAL MIDCAP FUND A	MUTUAL FUNDS	898,646	929,925
	PRINCIPAL MIDCAP FUND A GM	MUTUAL FUNDS	1,060,181	1,158,295
	TCW TOTAL RETURN BOND FUND	MUTUAL FUNDS	230,580	175,383
	SELF-DIRECT ACCT	OTHER ASSETS	9,558	9,558
	SELF-DIRECT ACCT	OTHER ASSETS	7,299,850	7,299,850
	PENDING SETTLEMENT FUND	PENDING SETTLEMENT FUNDS	75	75
	UNINVESTED CASH	UNINVESTED CASH	0	0