

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 01/01/2022 and ending 12/31/2022	
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 ADVANCED TECHNOLOGY & RESEARCH CORP. 401(K) RETIREMENT PLAN	1b	Three-digit plan number (PN) ▶ 001
		1c	Effective date of plan 07/01/1987
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) ADVANCED TECHNOLOGY & RESEARCH CORP. 12301 KILN COURT BELTSVILLE, MD 20705	2b	Employer Identification Number (EIN) 52-0977059
		2c	Plan Sponsor's telephone number 443-766-7888
		2d	Business code (see instructions) 541330

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.	10/16/2023	MARSELLA HASKIN-HARE
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	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		5 213
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) 102
a(2) Total number of active participants at the end of the plan year		6a(2) 101
b Retired or separated participants receiving benefits		6b 7
c Other retired or separated participants entitled to future benefits.....		6c 117
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 225
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 0
f Total. Add lines 6d and 6e		6f 225
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 205
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 7
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: 2E 2F 2G 2J 2K 2S 3D		
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) ☐ 0 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 01/01/2022 and ending 12/31/2022		
A Name of plan ADVANCED TECHNOLOGY & RESEARCH CORP. 401(K) RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 ADVANCED TECHNOLOGY & RESEARCH CORP.	D Employer Identification Number (EIN) 52-0977059	

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
CAPITAL GROUP RETIREMENT PLAN SVCS.
82-4555287

(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)

CAPITAL GROUP RETIREMENT PLAN SVCS.

82-4555287

(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?
64 52 60 62 25 49 72 37	RECORDKEEPER	1138	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 ☐

(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>01/01/2022</u> and ending <u>12/31/2022</u>		
A Name of plan <u>ADVANCED TECHNOLOGY & RESEARCH CORP. 401(K) RETIREMENT PLAN</u>		B Three-digit plan number (PN) <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>ADVANCED TECHNOLOGY & RESEARCH CORP.</u>		D Employer Identification Number (EIN) <u>52-0977059</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	0	0
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	0	0
(2) Participant contributions.....	1b(2)	0	0
(3) Other.....	1b(3)	0	0
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)	911294	900333
(2) U.S. Government securities	1c(2)	0	0
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)	0	0
(B) All other	1c(3)(B)	0	0
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)	0	0
(B) Common.....	1c(4)(B)	0	0
(5) Partnership/joint venture interests	1c(5)	0	0
(6) Real estate (other than employer real property)	1c(6)	0	0
(7) Loans (other than to participants).....	1c(7)	0	0
(8) Participant loans.....	1c(8)	42182	85094
(9) Value of interest in common/collective trusts.....	1c(9)	0	0
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts.....	1c(11)	0	0
(12) Value of interest in 103-12 investment entities	1c(12)	0	0
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	23337714	18824678
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)	0	0

1d Employer-related investments:

		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)	0	0
(2) Employer real property	1d(2)	0	0
e Buildings and other property used in plan operation	1e	0	0
f Total assets (add all amounts in lines 1a through 1e)	1f	24291190	19810105

Liabilities

g Benefit claims payable	1g	0	0
h Operating payables	1h		
i Acquisition indebtedness	1i	0	0
j Other liabilities	1j	0	0
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	24291190	19810105
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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 Contributions:**

		(a) Amount	(b) Total
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	245956	
(B) Participants	2a(1)(B)	850092	
(C) Others (including rollovers)	2a(1)(C)	0	
(2) Noncash contributions	2a(2)	0	
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		1096048

b Earnings on investments:**(1) Interest:**

(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	10681	
(B) U.S. Government securities	2b(1)(B)	0	
(C) Corporate debt instruments	2b(1)(C)	0	
(D) Loans (other than to participants)	2b(1)(D)	0	
(E) Participant loans	2b(1)(E)	2229	
(F) Other	2b(1)(F)	0	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		12910

(2) Dividends: (A) Preferred stock	2b(2)(A)	0	
(B) Common stock	2b(2)(B)	0	
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	1141944	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		1141944

(3) Rents	2b(3)		0
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(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	0	
(B) Aggregate carrying amount (see instructions)	2b(4)(B)	0	
(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)	0	
(B) Other	2b(5)(B)	0	
(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)		0
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		0
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		0
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		0
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-6218481
c Other income	2c		14916
d Total income. Add all income amounts in column (b) and enter total	2d		-3952663
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	526863	
(2) To insurance carriers for the provision of benefits	2e(2)	0	
(3) Other	2e(3)	0	
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		526863
f Corrective distributions (see instructions)	2f		421
g Certain deemed distributions of participant loans (see instructions)	2g		0
h Interest expense	2h		0
i Administrative expenses: (1) Professional fees	2i(1)	0	
(2) Contract administrator fees	2i(2)	1138	
(3) Investment advisory and management fees	2i(3)	0	
(4) Other	2i(4)	0	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		1138
j Total expenses. Add all expense amounts in column (b) and enter total	2j		528422
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-4481085
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: **BDO USA, P.C.**

(2) EIN: **13-5381590**

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		97792

	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 01/01/2022 and ending 12/31/2022		
A Name of plan ADVANCED TECHNOLOGY & RESEARCH CORP. 401(K) RETIREMENT PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 ADVANCED TECHNOLOGY & RESEARCH CORP.		D Employer Identification Number (EIN) 52-0977059
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): 20-3691658		
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 _____



Advanced Technology & Research Corp. 401(k) Retirement Plan

**Financial Statements
and ERISA-Required Supplemental Schedules
As of December 31, 2022 and 2021
and for the Year Ended December 31, 2022**

Advanced Technology & Research Corp.
401(k) Retirement Plan

Financial Statements and ERISA-Required Supplemental Schedules
As of December 31, 2022 and 2021
and for the Year Ended December 31, 2022

Advanced Technology & Research Corp. 401(k) Retirement Plan

Contents

Independent Auditor's Report	1-4
Financial Statements	
Statements of Net Assets Available for Benefits	5
Statement of Changes in Net Assets Available for Benefits	6
Notes to the Financial Statements	7-13
ERISA-Required Supplemental Schedules	
Schedule H, Line 4a - Schedule of Delinquent Participant Contributions	14
Schedule H, Line 4i - Schedule of Assets (Held at End of Year)	15



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8401 Greensboro Drive
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McLean, VA 22102

Independent Auditor's Report

Trustee

Advanced Technology & Research Corp. 401(k) Retirement Plan
Beltsville, Maryland

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

We have performed audits of the financial statements of the Advanced Technology & Research Corp. 401(k) Retirement Plan (the 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). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the 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 (DOL) Rules and Regulations for Reporting and Disclosure under ERISA (ERISA Section 103(a)(3)(C) audit). 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 (qualified institution), provided that the investment information is prepared and certified to by the qualified institution in accordance with 29 CFR 2520.103-5 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021, and for the year ended December 31, 2022, 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 the procedures performed as described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report

- the amounts and disclosures in the accompanying financial statements, 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 (GAAP); and
- the certified investment information in the accompanying financial statements agrees to, or is derived from, in all material respects, the information prepared and certified by a qualified institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

BDO USA, P.C., a Virginia professional corporation, is the U.S. member of BDO International Limited, a UK company limited by guarantee, and forms part of the international BDO network of independent member firms.

BDO is the brand name for the BDO network and for each of the BDO Member Firms.



Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the 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 the financial statements in accordance with GAAP, 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 the Plan's ability to continue as a going concern within one year after the date that the financial statements are issued or available to be issued.

Management is responsible for maintaining a current plan instrument, including all plan amendments. Management is also responsible for 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.

Auditor's 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 auditor's 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 GAAS 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 GAAS, 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 the 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 the 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 certifications, 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 GAAP.

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 GAAP.

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.

Other Matter – Supplemental Schedules Required by ERISA

The supplemental schedules (Schedule H, Line 4a - Schedule of Delinquent Participant Contributions for the year ended December 31, 2022 and Schedule H, Line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2022) are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the DOL'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 schedules, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit 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 GAAS. For information included in the supplemental schedules 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 schedules, we evaluated whether the supplemental schedules, other than the information agreed to or derived from the certified investment information, including its form and content, are presented in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion

- the form and content of the supplemental schedules, other than the information in the supplemental schedules that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.
- the certified investment information in the supplemental schedules agrees to, or is derived from, in all material respects, the information prepared and certified by a qualified institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

BDO USA, P.C.

McLean, Virginia
October 13, 2023

Financial Statements

Advanced Technology & Research Corp. 401(k) Retirement Plan

Statements of Net Assets Available for Benefits

<i>December 31,</i>	2022	2021
Assets		
Investments, at fair value	\$ 19,725,011	\$ 24,249,008
Receivables:		
Employee contributions receivable	35,941	33,903
Employer contributions receivable	5,569	9,294
Notes receivable from participants	85,094	42,182
Total receivables	126,604	85,379
Total assets	19,851,615	24,334,387
Net assets available for benefits	\$ 19,851,615	\$ 24,334,387

See accompanying notes to the financial statements.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Statement of Changes in Net Assets Available for Benefits

Year Ended December 31, 2022

Additions:

Investment income (loss)

Net depreciation in fair value of investments	\$ (6,218,481)
Interest and dividends	1,152,625
Other income	14,916

Total investment loss, net (5,050,940)

Interest income on notes receivable from participants 2,229

Contributions

Participants	852,130
Employer	242,231

Total contributions 1,094,361

Total additions, net of investment loss (3,954,350)

Deductions:

Benefits paid to participants	527,284
Administrative expenses	1,138

Total deductions 528,422

Net decrease (4,482,772)

Net assets available for benefits:

Beginning of the year 24,334,387

End of the year \$ 19,851,615

See accompanying notes to the financial statements.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

1. Description of the Plan

The following description of the Advanced Technology & Research Corp. 401(k) Retirement Plan (the Plan) provides only general information. Participants should refer to the comprehensive Plan Document for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution profit sharing plan with 401(k) salary deferral provisions covering all employees of Advanced Technology & Research Corp. (the Company), with the exception of certain nonresident aliens who have no earned income from sources within the United States of America. The Plan is administered by the Employee Benefit Committee of the Company. An Investment Committee comprised of Company employees has been established to review and advise the Employee Benefit Committee on the investment funds utilized by the Plan and to communicate performance. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA), as amended.

Trustee and administration of the Plan

Empower Retirement, LLC (Empower) is the recordkeeper of the Plan and the appointed trustee of the Plan is Capital Bank and Trust Company (CB&T). The administrator of the Plan is the Company. CB&T holds all assets of the Plan in accordance with the service provider contract with the Company.

Contributions

Eligible participants may contribute up to 50% of a participant's eligible compensation as defined in the Plan. The Plan includes an auto-enrollment provision whereby all newly eligible employees are automatically enrolled in the Plan unless they affirmatively elect not to participate in the Plan. Automatically enrolled participants have their deferral rate set at 6% of eligible compensation and their contributions are invested in a designated balanced fund until changed by the participant. The Plan does not provide for automatic escalations of the automatic deferral percentage.

In addition, the Plan allows for catch up contributions by employees aged 50 years and older before the end of the Plan year. Participants may also contribute amounts representing distributions from other qualified plans (rollover contributions), as defined in the Plan's provisions. For the year ended December 31, 2022, no rollover contributions were received by the Plan.

The Company may make a discretionary matching contribution as determined annually by the Board of Directors, for which participants are eligible after six months of service. For 2022, the Company elected to match 75% of each participant's deferral contributions up to \$168.75 per pay period. The Company may also make a discretionary non-elective profit sharing contribution as determined annually by the Board of Directors. Participants are eligible for the discretionary non-elective profit sharing contribution after six months of service and must also be employed by the Company on the last day of the Plan year and have completed at least 501 hours of service during the Plan year. The Company made no discretionary non-elective profit sharing contribution to the Plan during the year ended December 31, 2022. Contributions are subject to certain Internal Revenue Service (IRS) limitations.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

Participant accounts

Each participant's account is credited with the participant's contributions, including amounts rolled over from other qualified plans, and allocations of the Company's discretionary matching and profit sharing contributions, if any, 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 or account balances as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's account.

Vesting

Participants employed with the Company before January 1, 2020 are immediately vested in all contributions, as well as actual earnings and losses thereon. Participants who become employed with the Company on or after January 1, 2020 are 100% vested in employer discretionary matching contributions upon attainment of retirement age of 65 or ratably over a three-year schedule as follows:

<u><i>Years of service</i></u>	<u><i>Percent Vesting</i></u>
Less than one year	25%
One year	50%
Two years	75%
Three years	100%

Notes receivable from participants

Participants may borrow from their vested account balance a minimum of \$1,000, up to a maximum equal to the lesser of (i) \$50,000, or (ii) 50% of their account balance reduced by the excess of the participant's highest outstanding note balance during the previous twelve months over the outstanding loan balance, if any, on the date the note is made. The notes are secured by the balance in the participant's account and bear interest at rates commensurate with the local prevailing rates as determined by the Plan Administrator at the time the loans were made. Terms may range from one to five years, or up to fifteen years for the purchase of a primary residence. Principal and interest are paid ratably through monthly payroll deductions.

Payment of benefits

Upon termination of service due to death, disability, retirement or any other reason, a participant or beneficiary may elect to receive either a lump-sum amount equal to the value of the participant's vested account balance or annuitized payments of the participant's vested account balance over time. Account balances under \$5,000 may only be paid out as a lump-sum.

Participants may also elect to withdraw amounts from their accounts in the event of a proven financial hardship.

Forfeitures

At December 31, 2022 and 2021, forfeited accounts totaled \$63,393 and \$50,659, respectively. Forfeited accounts are utilized to reduce Plan expenses and employer contributions. During the year ended December 31, 2022, forfeitures totaling \$5,007 were used to pay plan expenses.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

2. Summary of Significant Accounting Policies

Basis of accounting

The Plan's financial statements are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America (GAAP).

Use of estimates

The preparation of financial statements in conformity with GAAP requires the Plan Administrator to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from estimated amounts.

Investment valuation and income recognition

Investments are reported at fair value. Fair value is the price that would be received to sell an asset in an orderly transaction between market participants at the measurement date. The Plan Administrator determines the Plan's valuation policies utilizing information provided by the investment trustee. See Note 4 for further information related to fair value measurements.

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

Notes receivable from participants

Notes receivable from participants are measured at the unpaid principal balances 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. 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.

Payment of benefits

Benefits are recorded when paid.

Administrative expenses

Certain expenses of maintaining the Plan are paid directly by the Company and are excluded from these financial statements. Fees related to the administration of notes receivable from participants are charged directly to the participant's account and are included in administrative expenses. Investment-related expenses are included in net depreciation of fair value of investments.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

3. Certified Investment Information

The Plan Administrator has elected the method of annual reporting compliance permitted by ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, CB&T, a qualified institution, has certified that the following investment information included in the accompanying financial statements and ERISA-required supplemental schedule of assets held (at end of year) is complete and accurate:

- Investments and notes receivable from participants as shown in the statements of net assets available for benefits as of December 31, 2022 and 2021.
- Investment loss, net and interest income on notes receivable from participants as shown in the statement of changes in net assets available for benefits for the year ended December 31, 2022.
- Investment information included in the schedule of assets (held at end of year) as of December 31, 2022, as shown on the ERISA-required supplemental schedule of assets (held at end of year).

At the request of the Plan Administrator, the Plan's independent auditors did not perform auditing procedures with respect to this certified investment information, except for comparing such certified investment information to the related investment information included in the financial statements and ERISA-required supplemental schedule of assets (held at end of year).

4. Fair Value Measurements

The framework for measuring fair value 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;
- 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.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

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 at December 31, 2022 and 2021.

The asset 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.

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

The preceding method may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan Administrator believes the Plan's valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value measurement at the reporting date.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2022 and 2021:

Assets at Fair Value as of December 31, 2022					
	Assets Measured at Fair Value	Fair Value Hierarchy Level			
		Level 1	Level 2	Level 3	
Mutual funds	\$ 18,824,678	\$ 18,824,678	\$ -	\$ -	
Money market funds	900,333	900,333	-	-	
Total assets at fair value	\$ 19,725,011	\$ 19,725,011	\$ -	\$ -	

Assets at Fair Value as of December 31, 2021					
	Assets Measured at Fair Value	Fair Value Hierarchy Level			
		Level 1	Level 2	Level 3	
Mutual funds	\$ 23,337,714	\$ 23,337,714	\$ -	\$ -	
Money market funds	911,294	911,294	-	-	
Total assets at fair value	\$ 24,249,008	\$ 24,249,008	\$ -	\$ -	

5. Related Party and Party-in-Interest Transactions

Certain Plan investments are managed by American Funds, which is owned by The Capital Group Companies, which also owns CB&T. As a result, American Funds qualifies as a party-in-interest to the Plan with respect to transactions related to these funds and are exempt under the prohibited transaction rules of ERISA. Fees paid by the Plan for investment management services are included

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

in net depreciation in fair value of investments as they are paid through revenue sharing rather than a direct payment. Notes receivable from participants are also considered to be exempt party-in-interest transactions.

6. Income Tax Status

The Plan uses a pre-approved plan document sponsored by Capital Group Retirement Plan Services. The Plan received an opinion letter from the IRS, dated June 30, 2020, which states that the pre-approved plan document, as then designed, satisfies the applicable provisions of the IRC. Although the Plan has been amended since the date of the opinion letter, Plan management believes that the Plan is currently designed and being operated in compliance with the applicable requirements of the IRC.

GAAP requires plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no IRS examinations for any tax periods in progress.

7. Prohibited Transactions

During the years ended December 31, 2022, 2021 and 2020, the Company failed to segregate and remit in a timely manner certain participant contributions (salary reduction amounts) from its assets within the required time period as specified by the United States DOL Regulation 2510.3012. Failure to segregate and remit contributions within the specified time period is a prohibited transaction according to the provisions of ERISA and the IRC. The Company remitted these contributions to the Plan shortly after the required time frame. The late remittances related to the 2020 and 2021 Plan years were corrected during 2022. The Company plans to calculate and remit lost earnings associated with the 2022 late remittances before the end of 2023.

8. 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. 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 accompanying statements of net assets available for benefits.

9. Plan Termination

Although it has not expressed any intention 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 set forth in ERISA. In the event that the Plan is terminated, participants would become 100% vested in their accounts.

Advanced Technology & Research Corp. 401(k) Retirement Plan

Notes to the Financial Statements

10. Reconciliation to the Form 5500

The following is a reconciliation of net assets available for benefits per the financial statements at December 31, 2022 and 2021, to the Form 5500:

<i>December 31,</i>	<i>2022</i>	<i>2021</i>
Net assets available for benefits per the financial statements	\$ 19,851,615	\$ 24,334,387
Difference in employee contributions receivable on the financial statements and per the Form 5500	(35,941)	(33,903)
Difference in employer contributions receivable on the financial statements and per the Form 5500	(5,569)	(9,294)
Net assets available for benefits per the Form 5500	\$ 19,810,105	\$ 24,291,190

The following is a reconciliation of the change in net assets available for benefits per the financial statements for the year ended December 31, 2022 to the Form 5500:

<i>Year Ended December 31, 2022</i>	
Net decrease in net assets available for benefits per the financial statements	\$ (4,482,772)
Plus: differences in employee and employer contributions receivable as of December 31, 2021	43,197
Less: differences in employee and employer contributions receivable as of December 31, 2022	(41,510)
Net decrease in net assets available for benefits per the Form 5500	\$ (4,481,085)

11. Subsequent Events

Plan management has evaluated subsequent events through October 13, 2023, the date the financial statements were available to be issued. Plan management is not aware of any subsequent events which would require recognition or disclosure in the financial statements.

ERISA-Required Supplemental Schedules

Advanced Technology & Research Corp. 401(k) Retirement Plan

Schedule H, Line 4a - Schedule Delinquent Participant Contributions

EIN: 52-0977059

Plan Number: 001

Year Ended December 31, 2022

Total That Constitute
Nonexempt Prohibited Transactions: \$365,978

Participant Contributions Transferred Late to the Plan: Check Here if Late Participant Loan Repayments are Included [X]	Contributions Not Corrected	Contributions Corrected Outside Voluntary Fiduciary Correction Program (VFCP)	Contributions Pending Correction in VFCP	Total Fully Corrected Under VFCP and Prohibited Transaction Exemption 2002-51
2020	\$ -	\$ -	\$ -	200,985
2021	\$ -	\$ -	\$ -	31,291
2022	\$ 97,792	\$ -	\$ -	35,910

Advanced Technology & Research Corp. 401(k) Retirement Plan

Schedule H, Line 4i - Schedule of Assets (Held at End of Year)

EIN: 52-0977059

Plan Number: 001

December 31, 2022

(a)	(b) Identity of issue, borrower, lessor or similar party	(c) Description of investments, including maturity date, rate of interest collateral, par or maturity value	(d) Cost	(e) Current value
*	American Funds The Growth Fund of America	Mutual Fund	\$ **	\$ 2,825,053
	iShares S&P 500 Index Fund Investor	Mutual Fund	**	2,403,501
*	American Funds 2025 Target Date Fund	Mutual Fund	**	1,815,056
	Virtus Zevenbergen Technology Fund	Mutual Fund	**	1,700,924
*	American Funds Washington Mutual	Mutual Fund	**	1,572,822
	PIMCO Total Return Fund	Mutual Fund	**	1,009,844
*	American Funds U.S. Government Money Market Fund	Money Market	**	900,333
*	American Funds 2055 Target Date Fund	Mutual Fund	**	890,568
*	American Funds American High-Income Trust	Mutual Fund	**	768,691
*	American Funds 2030 Target Date Fund	Mutual Fund	**	743,492
*	American Funds Capital World Growth and Income Fund	Mutual Fund	**	733,433
	Invesco Main Street Mid Cap Fund	Mutual Fund	**	668,410
*	American Funds 2040 Target Date Fund	Mutual Fund	**	646,128
	Virtus NFJ Mid-Cap Value Fund	Mutual Fund	**	491,656
*	American Funds New World Fund	Mutual Fund	**	394,206
*	American Funds EuroPacific Growth Fund	Mutual Fund	**	389,052
*	American Funds 2050 Target Date Fund	Mutual Fund	**	374,209
	PGIM Total Return Bond Fund	Mutual Fund	**	372,709
*	American Funds 2060 Target Date Fund	Mutual Fund	**	202,699
*	Columbia Small Cap Index Fund	Mutual Fund	**	195,244
*	American Funds 2045 Target Date Fund	Mutual Fund	**	177,373
*	American Funds 2020 Target Date Fund	Mutual Fund	**	165,186
*	American Funds SMALLCAP World Fund	Mutual Fund	**	130,205
*	American Funds Inflation Linked Bond Fund Class	Mutual Fund	**	54,637
*	American Funds 2015 Target Date Fund	Mutual Fund	**	31,054
*	American Funds 2035 Target Date Fund	Mutual Fund	**	25,702
	Templeton Global Bond Fund	Mutual Fund	**	22,808
*	American Funds 2065 Target Date Fund	Mutual Fund	**	17,578
*	American Funds 2010 Target Date Fund	Mutual Fund	**	2,438
Total investments per the financial statements				19,725,011
		Interest rates ranging from 3.75% to 7.50%, maturing through February 2031	\$ -	85,094
*	Participant loans			
Total investments per the Form 5500				\$ 19,810,105

* Party-in-interest as defined by ERISA.

** Historical cost information is not required as all investments are participant directed.

INVESTMENT OPTION	MATURITY DATE	INTEREST RATE	COST OF ASSETS	CURRENT VALUE
IREREX			400,515.52	389,052.06
IRGAEX			2,598,977.54	2,825,052.82
IRNWEX			339,665.61	394,205.83
IRSLEX			125,047.62	130,205.33
IPQNAX			528,709.65	491,655.58
IRAGTX			3,089,109.02	1,700,923.54
INMSAX			214,539.81	195,244.42
IOPMSX			684,922.50	668,409.94
IRWIEX			639,062.37	733,433.17
IRWMEX			1,194,487.59	1,572,822.40
IBSPAX			1,807,475.58	2,403,500.79
IRITEX			866,948.30	768,690.99
IRILDXX			63,325.11	54,637.10
IPTTAX			1,255,953.91	1,009,843.99
IPDBAX			460,509.22	372,708.58
ITPINX			33,126.39	22,807.64
IRADXX			836,889.04	836,939.95
IRDATX			2,505.70	2,437.71
IRDBTX			33,318.21	31,054.46
IRDCTX			178,159.79	165,185.57
IRDDTX			1,953,226.36	1,815,056.15
IRDETX			730,197.81	743,492.25
IRDFTX			26,270.50	25,701.90
IRDGTX			626,411.85	646,128.44
IRDHTX			191,507.79	177,373.24
IRDITX			333,044.90	374,208.97
IRDJTX			831,999.35	890,568.33
IRDKTX			215,621.49	202,698.66
IRDLTX			18,947.34	17,577.89
			20,280,475.87	19,661,617.70
PARTICIPANT LOANS				
	VARIOUS	3.750-7.500	85,054.22	85,094.45
FORFEITURES			63,392.85	63,392.85

INVESTMENT OPTION	MATURITY DATE	INTEREST RATE	COST OF ASSETS	CURRENT VALUE
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LEGEND

INVESTMENT OPTION:

IREREX	American Funds EuroPacific Gr R4	IRGAEX	American Funds Growth Fund of Amer R4
IRNWEX	American Funds New World Fund R4	IRSLEX	American Funds SMALLCAP World R4
IPQNAX	Virtus NFI Mid-Cap Value A	IRAGTX	Virtus Zevenbergen Technology A
INMSAX	Columbia Small Cap Index A	IOPMSX	Invesco Main Street Mid Cap A
IRWIEX	American Funds Capital World G/I R4	IRWMEX	American Funds Washington Mutual R4
IBSPAX	iShares S&P 500 Index A	IRITEX	American Funds American Hi Inc Tr R4
IRILDXX	American Funds Inflation Linked Bd Fd R4	IPTTAX	PIMCO Total Return A
IPDBAX	PGIM Total Return Bond A	ITPINX	Templeton Global Bond A
IRADXX	American Funds US Govt Money Market R4	IRDATX	American Funds 2010 Target Date Fund R4
IRDBTX	American Funds 2015 Target Date Fund R4	IRDCTX	American Funds 2020 Target Date Fund R4
IRDDTX	American Funds 2025 Target Date Fund R4	IRDETX	American Funds 2030 Target Date Fund R4
IRDFTX	American Funds 2035 Target Date Fund R4	IRDGTX	American Funds 2040 Target Date Fund R4
IRDHTX	American Funds 2045 Target Date Fund R4	IRDITX	American Funds 2050 Target Date Fund R4
IRDJTX	American Funds 2055 Target Date Fund R4	IRDKTX	American Funds 2060 Target Date Fund R4
IRDLTX	American Funds 2065 Target Date Fund R4		

COST OF ASSETS: The original cost of the assets in each investment option as of the last day of the plan year
CURRENT VALUE: The value of all assets in each investment option as of the last day of the plan year