

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 JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN	1b	Three-digit plan number (PN) ▶ 001
		1c	Effective date of plan 01/01/2005
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) JOINT RESEARCH AND DEVELOPMENT, INC. 50 TECH PARKWAY, STE. 209 STAFFORD, VA 22556	2b	Employer Identification Number (EIN) 42-1633797
		2c	Plan Sponsor's telephone number 540-288-3132
		2d	Business code (see instructions) 541700

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.	10/10/2023	TIM REARDON
	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		5 231
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) 193
a(2) Total number of active participants at the end of the plan year		6a(2) 158
b Retired or separated participants receiving benefits		6b 6
c Other retired or separated participants entitled to future benefits.....		6c 88
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 252
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 1
f Total. Add lines 6d and 6e		6f 253
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 233
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 16
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 2T 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) ☒ 1 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 A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance 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. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
A Name of plan JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 JOINT RESEARCH AND DEVELOPMENT, INC.	D Employer Identification Number (EIN) 42-1633797

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier NATIONWIDE LIFE INSURANCE COMPANY
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(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
31-4156830	66869	GAP-CP-HD6M	16	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.
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(a) Total amount of commissions paid	(b) Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end.....	4	
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☒ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year	7b	219818
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c	Additions: (1) Contributions deposited during the year	7c(1)	41712
	(2) Dividends and credits.....	7c(2)	0
	(3) Interest credited during the year.....	7c(3)	4283
	(4) Transferred from separate account.....	7c(4)	1240
	(5) Other (specify below)	7c(5)	0

(6) Total additions.....	7c(6)	47235
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d	Total of balance and additions (add lines 7b and 7c(6))	7d	267053
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e Deductions:

(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	24262
(2) Administration charge made by carrier.....	7e(2)	230
(3) Transferred to separate account.....	7e(3)	9936
(4) Other (specify below)	7e(4)	0

(5) Total deductions.....	7e(5)	34428
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f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	232625
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Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve	9a(3)		
(4) Earned ((1) + (2) - (3))		9a(4)	0
b Benefit charges (1) Claims paid	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2))		9b(3)	0
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges	9c(1)(G)		
(H) Total retention		9c(1)(H)	0
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).)		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount. Specify nature of costs.	10b	

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

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 JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 JOINT RESEARCH AND DEVELOPMENT, INC.	D Employer Identification Number (EIN) 42-1633797	

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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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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)

NATIONWIDE

ONE NATIONWIDE PLAZA
COLUMBUS, OH 43215

31-4156830

(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 18 64	RECORDKEEPER	27807	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

CARY STREET PARTNERS

901 E BYRD STREET
STE 1001
RICHMOND, VA 23219

26-0070474

(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?
26 27 52	FINANCIAL ADVISOR	18000	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

AB&D CO

1523 HUGUENOT ROAD
SUITE 101
MIDLOTHIAN, VA 23113

54-1703353

(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?
13 15 17 37 64	CONTRACT ADMINISTRATOR	8391	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
(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

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>JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">B Three-digit plan number (PN) ►</td> <td style="width: 20%; text-align: center;"><u>001</u></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		B Three-digit plan number (PN) ►	<u>001</u>		
B Three-digit plan number (PN) ►	<u>001</u>					
C Plan sponsor's name as shown on line 2a of Form 5500 <u>JOINT RESEARCH AND DEVELOPMENT, INC.</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">D Employer Identification Number (EIN) <u>42-1633797</u></td> <td style="width: 20%;"></td> </tr> </table>		D Employer Identification Number (EIN) <u>42-1633797</u>			
D Employer Identification Number (EIN) <u>42-1633797</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	
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....		1b(1)	548404608781
(2) Participant contributions.....		1b(2)	00
(3) Other.....		1b(3)	
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....		1c(1)	
(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)	7751768961
(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)	1244936211383514
(14) Value of funds held in insurance company general account (unallocated contracts).....		1c(14)	219818232626
(15) Other		1c(15)	

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	13295101	12293882

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	13295101	12293882
---	-----------	----------	----------

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)	609851	
(B) Participants	2a(1)(B)	1516775	
(C) Others (including rollovers)	2a(1)(C)	155627	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		2282253
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	4121	
(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)	3970	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		8091
(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)	396257	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		396257
(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)		-2877584
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		-190983
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	756038	
(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)		756038
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)	8391	
(2) Contract administrator fees	2i(2)	27807	
(3) Investment advisory and management fees	2i(3)	18000	
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		54198
j Total expenses. Add all expense amounts in column (b) and enter total	2j		810236
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-1001219
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: **BROWN, EDWARDS & COMPANY LLP**

(2) EIN: **54-0504608**

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 01/01/2022 and ending 12/31/2022		
A Name of plan JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 JOINT RESEARCH AND DEVELOPMENT, INC.		D Employer Identification Number (EIN) 42-1633797
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): _____ 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

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 _____

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

FINANCIAL REPORT

December 31, 2022

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INDEPENDENT AUDITOR'S REPORT

To the Plan Administrator and
401(k) Committee of
Joint Research and Development, Inc. Employees' Retirement Plan
Stafford, Virginia

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

We have performed audits of the accompanying financial statements of Joint Research and Development, Inc. Employees' 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) [ERISA Section 103(a)(3)(C) audit]. 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 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 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 on the procedures performed as described in the Auditor's 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 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 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 the 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.

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 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 the Plan's internal control. Accordingly, no such opinion is expressed.

Auditor's Responsibilities for the Audit of the Financial Statements (Continued)

- 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 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 H, Line 4i – Schedule of Assets (Held at End of Year) as of December 31, 2022 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 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 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 its form and content, is presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

Supplemental Schedules Required by ERISA (Continued)

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).

Brown, Edwards & Company, L.L.P.

CERTIFIED PUBLIC ACCOUNTANTS

Glen Allen, Virginia
October 6, 2023

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
December 31, 2022 and 2021**

	<u>2022</u>	<u>2021</u>
ASSETS		
INVESTMENTS		
Investments, at fair value (Notes 3 and 4)	\$ 11,383,514	\$ 12,449,362
Investments, at contract value (Notes 3 and 5)	<u>232,626</u>	<u>219,818</u>
Total investments	<u>11,616,140</u>	<u>12,669,180</u>
RECEIVABLES		
Employer contributions	608,781	548,404
Notes receivable from participants	<u>91,620</u>	<u>100,176</u>
Total receivables	<u>700,401</u>	<u>648,580</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 12,316,541</u></u>	<u><u>\$ 13,317,760</u></u>

The Notes to Financial Statements are an integral part of these statements.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
Year Ended December 31, 2022**

ADDITIONS TO (DEDUCTIONS FROM) NET ASSETS ATTRIBUTED TO:

Investment income (loss) (Notes 3, 4, and 5)	
Net depreciation in fair value of investments	\$ (2,873,463)
Dividends and interest	396,257
Total investment loss	<u>(2,477,206)</u>
Interest income on notes receivable from participants	<u>3,970</u>
Contributions	
Employer	609,851
Participants	1,516,775
Rollover	155,627
Total contributions	<u>2,282,253</u>
Total deductions	<u>(190,983)</u>

DEDUCTIONS FROM NET ASSETS ATTRIBUTED TO:

Benefits paid to participants	756,038
Administrative expenses (Note 8)	54,198
Total deductions	<u>810,236</u>
Net decrease	(1,001,219)

NET ASSETS AVAILABLE FOR BENEFITS

Beginning of year	<u>13,317,760</u>
End of year	<u><u>\$ 12,316,541</u></u>

The Notes to Financial Statements are an integral part of this statement.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 1. Plan Description

The following description of the Joint Research and Development, Inc. Employees' Retirement Plan (the Plan) is provided for general information purposes only. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

General

The Plan is a defined contribution plan covering all employees of Joint Research and Development, Inc. (the Company) who have at least 30 consecutive days of service and who have attained 18 years of age or older. The Plan is subject to the applicable provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA).

Contributions

The Plan allows eligible participants to make voluntary deferral contributions of their annual compensation, as defined in the Plan document, subject to Internal Revenue Code (IRC) limitations. Participants who have attained age 50 before the end of the Plan year are eligible to make catch-up contributions. Participants may also contribute amounts representing distributions from other qualified plans and certain individual retirement accounts. Participants direct the investment of their contributions and the Company contributions.

Effective January 1, 2021, the Plan was restated to replace safe harbor Company contributions with a Company match and the service requirement to receive Company contributions was reduced from 1,000 hours to 400 hours. For 2022, the Company made a matching contribution equal to 100% of each participant's salary deferrals up to the first 4% of plan compensation plus 50% of salary deferrals for the next 2% of plan compensation. Additional amounts may be contributed at the discretion of the Company's Board of Directors. A participant must be employed on the last day of the Plan year to receive employer matching or discretionary contributions. The Plan also elected to allow an auto-enrollment feature. Participants aged 18 or older are automatically enrolled at 2% following completion of 30 days of service.

Participant accounts

Each participant's account is credited with the participant's contribution and allocations of the Company's contributions and Plan earnings, and charged with benefit payments, transaction fees related to notes receivable from participants, and allocations of administrative expenses and Plan losses. Allocations are based on participant compensation or account balances, as defined. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

(Continued)

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 1. Plan Description (Continued)

Vesting

Participants are immediately vested in their voluntary contributions plus earnings thereon. Vesting in the Company's matching contributions and discretionary contributions portions of their accounts plus earnings thereon is based on years of continuous service. A participant is 100% vested in the Company's non-safe harbor matching contributions after three years and 100% vested in the Company's discretionary contributions after five years. Participants also become fully vested upon death or disability, or normal retirement age.

Notes receivable from participants

Participants may borrow from their accounts a minimum of \$1,000 up to a maximum equal to the lesser of \$50,000, reduced by the highest outstanding balance of any loan made to them in the prior twelve months, or 50% of their vested account balance. The loans are secured by the balance in the participant's account and bear interest commensurate with market rates. At December 31, 2022, outstanding notes bore interest rates ranging from 4.25% to 6.50%. Principal and interest are paid ratably through payroll deductions.

Payment of benefits

Upon termination of service due to death, disability, retirement, or other reasons, a participant may elect to receive a single lump-sum amount or a partial withdrawal. For vested balances of \$5,000 or less, participant consent is not required for the distribution. An in-service distribution is permitted under certain situations and generally is limited to the amount of a participant's account that is 100% vested.

Administrative expenses

Plan fees and administrative expenses are paid by the Company or the Plan on a discretionary basis.

Forfeitures

Forfeitures are used to reduce future employer contributions or pay administrative expense. At December 31, 2022 and 2021, forfeited nonvested accounts totaled \$16,113 and \$-0-, respectively. During the year ended December 31, 2022, forfeitures of \$-0- were used to reduce employer contributions or pay administrative expenses.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 2. Summary of Significant Accounting Policies

Basis of accounting

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

Investment contracts held by a defined contribution plan are required to be reported at fair value, except for fully benefit-responsive investment contracts. Contract value is the relevant measure attribute for fully benefit-responsive investment contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan.

Use of estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (U.S. GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities at the date of the financial statements. Such estimates also affect the reported amounts of income and expenses during the reporting period. Actual results could vary from the estimates that were used.

Investment valuation and income recognition

Investments are reported at fair value except for the fully benefit-responsive investment contract, which is reported at contract 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 and sold, as well as held during the year.

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 statements of net assets available for benefits.

Notes receivable from participants

Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest.

Benefit payments

Benefits paid to participants are recorded when paid.

(Continued)

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 3. Information Certified by Nationwide Trust Company, FSB

Certain information was certified as complete and accurate by Nationwide Trust Company, FSB, the Plan's Custodian. That information is as follows:

- Investment assets
- Investment transactions
- Investment income
- Schedule H, Line 4i – Schedule of Assets (Held at End of Year)

Note 4. Fair Value Measurements

The Plan's investments, except for the benefit-responsive investment contract, are reported at fair value in the accompanying statements of net assets available for benefits. The methods used to measure fair value may produce an amount that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its 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 fair value measurement at the reporting date.

The fair value measurement accounting literature establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. This hierarchy consists of three broad levels: Level 1 inputs consist of unadjusted quoted prices in active markets for identical assets and have the highest priority; Level 2 inputs consist of observable inputs other than quoted prices for identical assets; and Level 3 inputs are unobservable and have the lowest priority. The Plan uses appropriate valuation techniques based on the available inputs to measure the fair value of its investments. When available, the Plan measures fair value using Level 1 inputs because they generally provide the most reliable evidence of fair value. Level 3 inputs are used only when Level 1 or Level 2 inputs are not available.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 4. Fair Value Measurements (Continued)

	Fair Value Measurements at Reporting Date Using:	
	Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)
<u>December 31, 2022</u>		
Mutual funds	\$ 11,383,514	\$ 11,383,514
Investments at fair value	<u>\$ 11,383,514</u>	<u>\$ 11,383,514</u>
<u>December 31, 2021</u>		
Mutual funds	\$ 12,449,362	\$ 12,449,362
Investments at fair value	<u>\$ 12,449,362</u>	<u>\$ 12,449,362</u>

Level 1 Fair Value Measurements

The fair values of mutual funds are based on quoted net asset values of the shares held by the Plan at year end.

(Continued)

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 5. Guaranteed Investment Contract with Insurance Company

The Plan holds an investment contract with Nationwide Life Insurance Company (Nationwide). This contract, the Nationwide Fixed Select Contract, meets the fully benefit-responsive traditional investment contract criteria and, therefore, is reported at contract value. Contract value is the relevant measure for fully benefit-responsive investment contracts because this is the amount received by participants if they were to initiate permitted transactions under the terms of the Plan. Contract value represents contributions made under each contract, plus earnings, less participant withdrawals, and administrative expenses. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investments in these contracts at contract value. The actual average yield earned by the Plan was 1.79% and 1.89% for the years ended December 31, 2022 and 2021, respectively. The following represents the total contract value of these investment contracts held by the Plan.

	<u>2022</u>	<u>2021</u>
Nationwide Fixed Select Contract	\$ 232,626	\$ 219,818

The guaranteed investment contract issuer is contractually obligated to repay the principal and a specified rate of interest that is guaranteed to the Plan. The crediting rate is based on a formula established by the contract issuer but will not fall below zero percent.

The Plan's ability to receive amounts due in accordance with fully benefit-responsive investment contracts is dependent on the third-party issuer's ability to meet its financial obligations. The issuer's ability to meet its contractual obligations may be affected by future economic and regulatory developments.

Certain events might limit the ability of the Plan to transact at contract value with the issuer. Such events include (1) amendments to the Plan documents (including complete or partial Plan termination or merger with another plan), (2) changes to the Plan's prohibition on competing investment options or deletion of equity wash provisions, (3) bankruptcy of the Plan Sponsor or other Plan Sponsor events (for example, divestitures or spin-offs of a subsidiary) that cause a significant withdrawal from the Plan, (4) the failure of the trust to qualify for exemption from federal income taxes or any required prohibited transaction exemption under ERISA, or (5) premature termination of the contract. No events are probable of occurring that might limit the ability of the Plan to transact at contract value with the contract issuer and that also would limit the ability of the Plan to transact at contract value with the participants.

In addition, certain events allow the issuer to terminate the contracts with the Plan and settle at an amount different from contract value. Those events may be different under each contract. Examples of such events include the following:

- An uncured violation of the Plan's investment guidelines.
- A breach of material obligation under the contract.
- A material misrepresentation.
- A material amendment to the agreements without the consent of the issuer.

(Continued)

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 6. Tax Status

Effective January 1, 2021, the Plan adopted a non-standardized plan sponsored by Actuarial Benefits & Design Company and has not requested a determination letter but rather has relied upon the Internal Revenue Service opinion letter dated June 30, 2020, issued on the non-standardized plan stating the Plan and related trust are designed in accordance with applicable sections of the *Internal Revenue Code (IRC)*. The Plan has been amended since receiving the letter. However, the Plan Administrator believes that the Plan is designed and is currently being operated in compliance with the applicable requirements of the *IRC*.

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 (or asset) if the plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The Plan Administrator has analyzed the tax positions taken by the Plan, and has concluded that as of December 31, 2022, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements.

Note 7. 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 will become 100% vested in their accounts.

Note 8. Related-Party and Party-in-Interest Transactions

Certain Plan assets are invested in funds managed by the Plan's custodian. Therefore, these transactions qualify as party-in-interest transactions. Fees paid by the Plan for investment management services were included as a reduction of the return earned on each fund. Actuarial Benefits & Design Company provides plan design, consulting, and compliance services for the Plan and Cary Street Partners provides investment advisory services for the Plan, therefore, these transactions qualify as party-in-interest transactions. However, these transactions are not considered prohibited transactions. Fees paid to the service providers by the Plan for administrative services were \$54,198 for the year ended December 31, 2022.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**NOTES TO FINANCIAL STATEMENTS
December 31, 2022**

Note 9. Reconciliation of Financial Statements to Form 5500

The following is a reconciliation of net assets available for benefits per the financial statements to Form 5500:

	<u>2022</u>	<u>2021</u>
Net assets available for benefits per the financial statements	\$ 12,316,541	\$ 13,317,760
Less:		
Defaulted participant loans	<u>(22,659)</u>	<u>(22,659)</u>
Net assets as reported in the Form 5500	<u>\$ 12,293,882</u>	<u>\$ 13,295,101</u>

Note 10. Subsequent Events

Subsequent events have been evaluated through October 6, 2023, the date the financial statements were available to be issued.

SUPPLEMENTARY INFORMATION

JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN
EIN: 42-1633797
Plan Number: 001

Schedule of Assets (Held at End of Year)
(Form 5500, Schedule H, Line 4i)
December 31, 2022

(A)	(B)	(C)	(D)	(E)
	Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par, or maturity value	Cost	Current Value
	Mutual Funds			
	American Funds	American Funds 2010 Target Retirement R-6	**	\$ 201
	American Funds	American Funds 2015 Target Retirement R-6	**	5,800
	American Funds	American Funds 2020 Target Retirement R-6	**	61,100
	American Funds	American Funds 2025 Target Retirement R-6	**	116,649
	American Funds	American Funds 2030 Target Retirement R-6	**	862,766
	American Funds	American Funds 2035 Target Retirement R-6	**	403,586
	American Funds	American Funds 2040 Target Retirement R-6	**	198,675
	American Funds	American Funds 2045 Target Retirement R-6	**	286,443
	American Funds	American Funds 2050 Target Retirement R-6	**	223,990
	American Funds	American Funds 2055 Target Retirement R-6	**	241,207
	American Funds	American Funds 2060 Target Retirement R-6	**	6,134
	American Funds	American Funds 2065 Target Retirement R-6	**	1,968
	American Funds	American Funds American Balanced Fund Class R-6	**	425,779
	American Funds	American Funds EuroPacific Growth Fund Class R-6	**	344,641
	American Funds	American Funds Fundamental Investors Class R-6	**	60,619
	Avantis	Avantis U.S. Small-Cap Value Fund	**	8,172
	Baron Funds	Baron Asset Fund Institutional Class	**	633,437
	Baron Funds	Baron Small-Cap Fund Institutional Class	**	432,459
	BlackRock	BlackRock Strategic Income Opportunities Portfolio Institutional Shares	**	6,648
	Dimensional	DFA Emerging Markets Core Equity Portfolio Institutional Class	**	264,021
	Dimensional	DFA Inflation-Protected Securities Portfolio Institutional Class	**	103,979
	Dimensional	DFA Real Estate Securities Portfolio Institutional Class	**	174,103
	Dimensional	DFA U.S. Large-Cap Value Portfolio Institutional Class	**	233,699
	Dimensional	DFA U.S. Vector Equity Portfolio Institutional Class	**	108,814
	Federated	Federated Hermes Government Obligations Fund; Premier	**	16,113
	Fidelity	Fidelity 500 Index Fund	**	511,821
	Fidelity	Fidelity International Index Fund	**	59,763
	Fidelity	Fidelity U.S. Bond Index Fund	**	109,081
	Hood River	Hood River Small-Cap Growth Instl	**	19,294
	Invesco	Invesco Global Opportunities Fund Class Y	**	140,000
	Janus Henderson	Janus Henderson Forty Fund	**	598,901
	JPMorgan	JPMorgan Mid-Cap Growth Fund Class A	**	441,843
	Loomis	Loomis Sayles Core Plus Bond Y Fund	**	247,823
	Morgan Stanley	Morgan Stanley Insight Fund Class A	**	22,750
	Morgan Stanley	Morgan Stanley Inst Global Opp I Fund	**	21,569
*	Nationwide	Nationwide Investor Destinations Aggressive Fund Class R-6	**	367,471
*	Nationwide	Nationwide Investor Destinations Conservative Fund	**	24,011
*	Nationwide	Nationwide Investor Destinations Moderately Aggressive Fund Class R-6	**	1,074,643
*	Nationwide	Nationwide Investor Destinations Moderately Conservative Fund	**	186,956
*	Nationwide	Nationwide Investor Destinations Moderate Fund	**	197,375
*	Nationwide	Nationwide Loomis All Cap Growth Fund	**	41,469
	Parnassus	Parnassus Value Equity Fund	**	12,015
	PGIM	PGIM Total Return Bond Fund - Class R-6	**	222,887
	PIMCO	PIMCO StockPlus Long Duration Fd Insti Class	**	45,487
	PIMCO	PIMCO Commodity Real Return Strategy	**	10,062
	Principal	Principal Global Real Estate Securities Fund Class R-6	**	6,864
	Prudential	Prudential Global Real Estate Fund Class Z	**	78,623
	T. Rowe Price	T. Rowe Price Dividend Growth Fund	**	4,322
	T. Rowe Price	T. Rowe Price Health Science	**	160,713
	Vanguard	Vanguard Dividend Growth Fund Investor Shares	**	574,911
	Vanguard	Vanguard GNMA Fund Investor Shares	**	114,397
	Vanguard	Vanguard Small-Cap Growth Index Fund Admiral Shares	**	164,821
	Vanguard	Vanguard Small-Cap Value Index Fund Admiral Shares	**	6,052
	Vanguard	Vanguard Short-Term Inflation-Protected Securities Index Fund Admiral Shares	**	3,281
	Vanguard	Vanguard Total International Stock Index Fund Admiral Shares	**	56,605
	Vanguard	Vanguard Total Stock Market Index Fund Admiral Shares	**	264,123
	Vanguard	Vanguard Value Index Fund Admiral Shares	**	372,578
				11,383,514

JOINT RESEARCH AND DEVELOPMENT, INC. EMPLOYEES' RETIREMENT PLAN
EIN: 42-1633797
Plan Number: 001

Schedule of Assets (Held at End of Year)
(Form 5500, Schedule H, Line 4i) (Continued)
December 31, 2022

(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
	Guaranteed Investment Contract			
*	Nationwide	Nationwide Fixed Select Contract	**	232,626
	Notes Receivable from Participants			
*	Participant Loans	Various maturities, interest rate range of 4.25% to 6.50%	-	68,961
		Total assets held at end of year		<u>\$ 11,685,101</u>
*	Party-in-interest			
**	Cost omitted for participant directed investments			

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS
December 31, 2022 and 2021**

	<u>2022</u>	<u>2021</u>
ASSETS		
INVESTMENTS		
Investments, at fair value (Notes 3 and 4)	\$ 11,383,514	\$ 12,449,362
Investments, at contract value (Notes 3 and 5)	<u>232,626</u>	<u>219,818</u>
Total investments	<u>11,616,140</u>	<u>12,669,180</u>
RECEIVABLES		
Employer contributions	608,781	548,404
Notes receivable from participants	<u>91,620</u>	<u>100,176</u>
Total receivables	<u>700,401</u>	<u>648,580</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 12,316,541</u></u>	<u><u>\$ 13,317,760</u></u>

The Notes to Financial Statements are an integral part of these statements.

**JOINT RESEARCH AND DEVELOPMENT, INC.
EMPLOYEES' RETIREMENT PLAN**

**STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS
Year Ended December 31, 2022**

ADDITIONS TO (DEDUCTIONS FROM) NET ASSETS ATTRIBUTED TO:

Investment income (loss) (Notes 3, 4, and 5)	
Net depreciation in fair value of investments	\$ (2,873,463)
Dividends and interest	396,257
Total investment loss	<u>(2,477,206)</u>
Interest income on notes receivable from participants	<u>3,970</u>
Contributions	
Employer	609,851
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Rollover	155,627
Total contributions	<u>2,282,253</u>
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DEDUCTIONS FROM NET ASSETS ATTRIBUTED TO:

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Administrative expenses (Note 8)	54,198
Total deductions	<u>810,236</u>
Net decrease	(1,001,219)

NET ASSETS AVAILABLE FOR BENEFITS

Beginning of year	<u>13,317,760</u>
End of year	<u><u>\$ 12,316,541</u></u>

The Notes to Financial Statements are an integral part of this statement.