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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	34.986	26.638	3.485	0.000	3.485	3.572	3.646	3.778	3.853	Continuing	Continuing
64317A: <i>64317A Technology Transfer Add</i>	-	2.639	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.752
646003: <i>Partnership Intermediary Agreement(s)</i>	-	21.724	3.404	3.485	0.000	3.485	3.572	3.646	3.778	3.853	Continuing	Continuing
646030: <i>AFwerX</i>	-	10.623	23.121	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.744

A. Mission Description and Budget Item Justification

Technology Transfer is a critical strategy for the NDS and DoD that makes the best possible use of national scientific, technical resources and information to enhance the effectiveness of DoD forces and warfighting capability systems. The Air Force Technology Transfer and Transition (T3) program oversees all Air Force inventions/patents and technology transfer agreements (CRADAs, EPAs, CTAs, MTAs, etc). Over their history, Tech Transfer has provided a great return on investment (over 100 to 1), as the agreements themselves do not provide DoD funding to companies/non-traditionals, but serve as a way for us to partner together to achieve a common goal. The only major costs to increasing this force multiplier are staff and legal support times (they are not contracts).

Since 2012 the Air Force Tech Transfer & Transition Program Office manages two OSD level Partnership Intermediaries (PIAs) in TechLink & Miltech (Montana State University) as well as helps SAF/AQR in the management and oversight of the 14 AF PIAs (as of FY23). The 646003 project includes the management of DoD/AF PIAs, the development of data to support the Defense Technology Transfer Information System (DTTIS), invention disclosure & patent processing, program management activities, training, and support to the Technology Executive Officer (TEO). This program impacts virtually all technology fields, including our Critical Technology Areas, and non-funded mechanisms to help achieve the operational imperatives via Tech Transfer as captured in the Annual DoD Technology Transfer Report.

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Technology Transfer capabilities. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

This program element may include necessary expenses to support the operation and maintenance of facilities to manage, execute, and deliver science and technology capabilities.

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>
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Beginning in FY 2024, PE 0604317F, Technology Transfer, Project 646030, AFWERX efforts and Project 64317A, Technology Transfer Add were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	35.430	26.638	8.637	0.000	8.637
Current President's Budget	34.986	26.638	3.485	0.000	3.485
Total Adjustments	-0.444	0.000	-5.152	0.000	-5.152
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.444	0.000			
• Other Adjustments	0.000	0.000	-5.152	0.000	-5.152

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 646003: *Partnership Intermediary Agreement(s)*

Congressional Add: *Program increase- academic partnership intermediary agreement tech transfer*

Congressional Add: *Program Increase- technology transfer*

Congressional Add: *Program increase - partnership intermediary program*

Congressional Add Subtotals for Project: 646003

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	9.875	-
	3.625	-
	4.937	-
	18.437	-
	18.437	-

Change Summary Explanation

The decrease in FY 2025 is due to the transfer of funding from PE 0604317F, Projects 63417A Technology Transfer Add and 646030 AFWERX, to PE 0604009F AFWERX Prime, Project 640856 AFWERX Operations and Support.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 64317A / <i>64317A Technology Transfer Add</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
64317A: <i>64317A Technology Transfer Add</i>	-	2.639	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.752
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. The AFWERX Program reduces risk in emerging technology markets by partnering with industries through Prime investments and providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas. The Spark mission is to inspire and enable Airmen and Guardians to unleash their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability.

Beginning in FY 2024, PE 0604317F, Technology Transfer, Project 64317A, Technology Transfer Add efforts were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Civilian Pay	2.639	0.113	0.000
Description: Provide professional government civilian workforce in support of AFWERX programs and activities.			
FY 2024 Plans: Funds civilian positions across all of the AFWERX charged missions. Supports AFWERX Prime, Ventures, Spark, Integration, Operations, Finance, and Contracting Divisions.			
FY 2025 Plans: Not applicable.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 64317A / <i>64317A Technology Transfer Add</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 decreased compared to FY 2024 by \$0.113 million. Funding decrease is due to funding realignment from PE 0604317F Technology Transfer, Project 64317A Technology Transfer Add to PE 0604009F AFWERX Prime, Project 640856 AFWERX Operations and Support.			
Accomplishments/Planned Programs Subtotals	2.639	0.113	0.000

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not applicable

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force			Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 64317A / <i>64317A Technology Transfer Add</i>	

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Civilian Pay	
Civilian Pay	[REDACTED]

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 64317A / <i>64317A Technology Transfer Add</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Civilian Pay</i>				
Civilian Pay	1	2023	4	2024

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
646003: <i>Partnership Intermediary Agreement(s)</i>	-	21.724	3.404	3.485	0.000	3.485	3.572	3.646	3.778	3.853	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Air Force Technology Transfer & Transition Office manages the Montana State University's TechLink & MilTech Partnership Intermediary Agreements (PIAs) as well as Air Force PIAs. TechLink brokered 70% of DoD licenses over the past 10 years. TechLink brokered 80% of DoD license agreements over the past 5 years, with 90% of them being with small businesses. Technology Transfer is a critical strategy for the National Defense Strategy and DoD that makes the best possible use of national scientific, technical resources and information to enhance the effectiveness of DoD forces and warfighting capability systems.

The Air Force Technology Transfer program oversees all AF inventions/patents and technology transfer agreements. This project includes the management of DoD/AF PIAs, the development of data to support the Defense Technology Transfer Information System (DTTIS), invention disclosure & patent processing, program management activities, training, and support to the Technology Executive Officer (TEO). This program impacts virtually all technology fields, including our Critical Technology Areas, and non-funded mechanisms to help achieve the operational imperatives via Tech Transfer as captured in the Annual DoD Technology Transfer Report.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: Technology Transfer	3.287	3.404	3.485
Description: Enhance and expand transfer of technologies between DoD and the commercial sector.			
FY 2024 Plans: Continue implementing new cost-effective approaches to further increase and accelerate transfer of technologies developed at DoD laboratories and facilitate their transition to the warfighter. Continue evaluation of and market DoD laboratory inventions and broker technology transfer agreements/Cooperative Research and Development Agreements (CRADAs), to include commercial licenses, that will support the US defense mission and benefit the US economy. Continue to engage with the innovative capabilities of non-traditional defense contractors in developing and commercializing new dual-use products and services.			
FY 2025 Plans: - Continue implementing new cost-effective approaches to further increase and accelerate transfer of technologies developed at DoD laboratories and facilitate their transition to the warfighter. - Continue evaluation of and market DoD laboratory inventions and broker technology transfer agreements/Cooperative Research and Development Agreements (CRADAs), to include commercial licenses, that will support the US defense mission and benefit the US economy.			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>- Continue to engage with the innovative capabilities of non-traditional defense contractors in developing and commercializing new dual-use products and services. Pursue additional engineering sample efforts through OSD and AF PIAs while better aligning those efforts with AF capability development pipelines. Increased activities in PIAs is expected due to the "One Lab, Two Services" construct.</p> <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> FY 2025 funding increased compared to FY 2024 by \$0.074M. Justification for this increase is described in plans above.</p>			
Accomplishments/Planned Programs Subtotals	3.287	3.404	3.485

	FY 2023	FY 2024
<i>Congressional Add:</i> Program increase- academic partnership intermediary agreement tech transfer	9.875	-
<i>FY 2023 Accomplishments:</i> Conduct Congressionally directed effort		
<i>Congressional Add:</i> Program Increase- technology transfer	3.625	-
<i>FY 2023 Accomplishments:</i> Conduct Congressionally directed effort		
<i>Congressional Add:</i> Program increase - partnership intermediary program	4.937	-
<i>FY 2023 Accomplishments:</i> Conduct Congressionally directed effort		
Congressional Adds Subtotals	18.437	-

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

This effort uses a Partnership Intermediary Agreement (PIA) with TechLink at Montana State University. Through this agreement TechLink helps the Department of Defense to establish licensing and other technology transfer agreements with US industry. The effort is run through the Air Force Research Laboratory/Small Business office at Wright Patterson Air Force Base.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646003 / <i>Partnership Intermediary Agreement(s)</i>

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Partnership Intermediary	
Tech Transfer Partnership Intermediary	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Partnership Intermediary</i>				
Tech Transfer Partnership Intermediary	1	2023	4	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3600 / 4					R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>				Project (Number/Name) 646030 / <i>AFwerX</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
646030: <i>AFwerX</i>	-	10.623	23.121	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.744
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AFWERX mission is to accelerate agile and affordable capability transitions by teaming innovative technology developers with Airmen and Guardian talent. AFWERX leverages Spark (the Airmen and Guardian talent base), AFVentures (the dual-use expanded technology base), and Prime (technology transitions) to scale and accelerate the capability. Funding in this project supports AFWERX research and development, innovation hubs, and information technology, public affairs, and marketing. The AFWERX Program reduces risk in emerging technology markets by partnering with industries through Prime investments and providing access to Government analysis, testing and certification capabilities. Prime investments focus on Government-industry partnerships to influence and militarize emerging commercial capabilities to ensure US competitive advantage in key technology areas. The Spark mission is to inspire and enable Airmen and Guardians to unleash their collective talent and ingenuity. Spark connects innovators using virtual collaboration, immersive training, and networking opportunities to inspire ideas and cultivate more lethal force. By connecting operators closer to acquisition processes, Spark provides both a voice and a conduit to accelerate powerful ideas into game-changing operational realities. This focus helps guide technologies through transition across the valley from idea to scaled and sustained capability.

Beginning in FY 2024, PE 0604317F, Technology Transfer, Project 646030, AFWERX efforts were transferred to PE 0604009F, AFWERX Prime, Project 640856 AFWERX Operations and Support.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
Title: AFWERX	10.623	23.121	0.000
Description: Transition affordable and accelerated capabilities by teaming innovative technology developers with Airmen and Guardian talent.			
FY 2024 Plans: Continue development and sustainment of the Acquisition Workforce and organizational capabilities. Core operations include civilian billets, expanded Spark engagement, and dynamic hubs, and site initiatives. Spark funding delivers development and fielding of Airmen and Guardian centric program management tools to connect the innovation ecosystem, establishes a Joint Spark innovation incubator. Dynamic hub and site initiatives seeks to establish a dynamic hub/site posturing strategy that is consistent with the DIAL-In (Defense, Industry, Academia, and Local Government Investment) model, with phased expanded growth across the innovation/commercial ecosystem.			
FY 2025 Plans: Not Applicable.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646030 / <i>AFwerX</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 funding decreased compared to FY 2024 by \$23.082 million. Funding decrease is due to funding realignment from PE 0604317F Technology Transfer to PE 0604009F AFWERX Prime Project 640856 AFWERX Operations and Support.			
Accomplishments/Planned Programs Subtotals	10.623	23.121	0.000

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not Applicable.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646030 / <i>AFwerX</i>
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

AFWERX	
AFWERX	[REDACTED]

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604317F / <i>Technology Transfer</i>	Project (Number/Name) 646030 / <i>AFwerX</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AFWERX				
AFWERX	1	2023	4	2024