

HIIFP Agreement No	Project Title	Institution Name	Principal Researcher	Award Year	Budget 2024-25	Total Budget	Number of Project Year
9024-R-0001	Investigating Impacts of the Existing Pavement Deterioration Models and Condition Rating Methods on Road Asset Management	McMaster University	Susan L. Tighe	2024	\$50,000	\$100,000	2 years
9024-R-0002	Enhancing Aggregate Screening Tests for ASR to Identify Reactive Aggregates	Toronto Metropolitan University	Medhat Shehata	2024	\$45,500	\$45,500	1 year
9024-R-0003	Advancing the Application of Reclaimed Concrete Material (RCM) in Ontario Infrastructure	University of Ottawa	Leandro F. M. Sanchez	2024	\$48,000	\$48,000	1 year
9024-R-0004	Effect of Slag Content on the Durability of Concrete Exposed to Freeze-Thaw and Salt Scaling	University of Toronto	Daman Panesar	2024	\$60,000	\$120,000	2 years
9024-R-0005	Effect of Concrete Drying Period Conditions and Moisture Content of Concrete Surface on the Effectiveness of Hot Applied Rubberized Asphalt	Carleton University	Kamal Hossain	2024	\$76,320	\$154,080	2 years
9024-R-0006	Enhancing the Safety of Workers and Motoring Public at Construction Zones in Northeast Rural Highways	McMaster University	Hao Yang	2024	\$49,375	\$49,375	1 year
9024-R-0007	Practical Field Chloride Content Testing in Concrete Structures	McMaster University	Cancan Yang	2024	\$39,000	\$78,000	2 years
9024-R-0008	Discrete Anode Performance Criteria in Concrete Patches	Lakehead University	Ahmed Bediwy	2024	\$24,375	\$24,375	1 year
9024-R-0009	Mechanically Stabilized Earth (MSE) Wall Stability in Flood Plains	University of Waterloo	Dipanjan Basu	2024	\$85,625	\$161,250	2 years
9024-R-0010	Determination of Jacking Forces for Tunnel Liners	University of Waterloo	Dipanjan Basu	2024	\$86,875	\$163,750	2 years
9024-R-0011	Providing Analysis to Identify Wildlife-Vehicle Collision (WVC) Hotspots on Provincial Highways and Developing Criteria for When Mitigation Should be Considered and Implemented	University of Toronto	Matthew Adams	2024	\$45,000	\$45,000	1 year
9024-R-0012	Identifying the Opportunities and Risks of Connected Technologies to MTO Highway Operations	McMaster University	Hao Yang	2024	\$48,125	\$48,125	1 year
9024-R-0013	Electric Vehicle Projection Tool for Ontario	McMaster University	Moataz Mohamed	2024	\$47,250	\$47,250	1 year
9024-R-0014	Evaluations of Environmentally Friendly De-icing Salts Through Laboratory and Field Tests	Carleton University	Kamal Hossain	2024	\$44,640	\$89,280	2 years
9024-R-0015	A real-time-self-contained video based AI system for highway traffic analysis	York University	James Elder	2024	\$83,230	\$138,335	2 years

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9024-R-0016	Utilizing Fibre-Reinforced Concrete (FRC) in Bridge Deck Slabs reinforced with Fibre-Reinforced Polymer (FRP) Composite Bars at Ambient and Elevated Temperatures	Lakehead University	Mohammed El-Gendy	2024	\$29,375	\$29,375	1 year
9023-R-0003	Key Performance Indicators (KPIs) and Targets for Demonstrating Sustainability and Climate Action Progress in Highway Design	McMaster University	Susan L. Tighe	2023	\$50,000	\$100,000	2 years
9023-R-0006	Investigating Impacts of Construction contaminants to Fibre Reinforced Polymer (FRP) Internal Reinforcing Bars	University of Waterloo	Eugene Kim	2023	\$48,375	\$96,750	2 years
9023-R-0007	Backfill Between Piling and CSP in Integral Abutment Bridges	University of Waterloo	Dipanjan Basu	2023	\$62,500	\$129,375	2 years
9023-R-0008	Incorporating Climate Change into Rainfall Prediction	York University	Rashid Bashir	2023	\$54,625	\$109,250	2 years
9023-R-0009	Foundation Frost Penetration Depths for Northern & Southern Ontario	York University	Rashid Bashir	2023	\$58,375	\$116,750	2 years
9023-R-0013	Evaluating the Effectiveness of Phytoremediation for Salt-affected Soils in the Toronto Region	Queen's University	Barb Zeeb	2023	\$74,562	\$215,874	3 years
9023-R-0014	Event-Oriented Predictive Modeling for Traffic Operations on Highways: Improving Traffic Flow and Road Safety	Ontario Tech University	Khalid Elgazzar	2023	\$101,250	\$202,500	2 years
9023-R-0015	Measure the Effectiveness of Resource Allocation	University of Toronto	Tamer E. El-Diraby	2023	\$62,500	\$125,000	2 years