

<b>Project Dates</b>	<b>Title of Research Grant or Contract</b>	<b>Granting Agency</b>	<b>Total Amount (\$) and Status</b>	<b>Principal Investigator and Co-Principal Investigator in order</b>
9/1/2012-12/28/2014	Probabilistic Modeling of Turbine Engine Sustainment	General Dynamics Information Technology/ Air Force Research Lab	\$152,444 (Completed)	Harry R. Millwater (PI), <b>Krystel Castillo (Co-PI)</b> .
Spring 2013-Spring 2014	The Impact of Transportation Disruptions in Supply Chains in the U.S.-Mexico Border (Fellowship)	UTSA Mexico Center Educational Research Fellowship	\$3,500 (Completed)	<b>Krystel Castillo (PI)</b> .
03/01/2013-5/1/2014	Predictive Maintenance - Phase 1: A Roadmap for Intelligent Maintenance	Harland Clarke	\$108,784 (Completed)	Can Saygin (PI), Co-PI: <b>Krystel Castillo</b> , F. Frank Chen, HungDa Wan, Adel Alaeddini.
02/01/2013-08/31/2013	CPS Energy: Alternative Transportation Initiatives	City Public Service (CPS) through the Texas Sustainable Energy Research Institute	\$153,335 (Completed)	<u>Dwain Rogers (PI)</u> , <b>Krystel Castillo (Co-PI)</b> .
09/01/2013-01/31/2014	CPS Energy: Alternative Transportation Initiatives	City Public Service (CPS) through the Texas Sustainable Energy Research Institute	\$101,814 (Completed)	<u>Dwain Rogers (PI)</u> , Co-PI: <b>Krystel Castillo</b> , Donghoon Han.
09/01/2013-08/31/2014	Feedstock Logistics in the Bioenergy Industry: Biomass-to-biorefinery Supply Chain Model	UTSA Tenure-Track Award Competition (TRAC), The Office of the Vice President for Research	\$27,500 (Completed)	<b>Krystel Castillo (PI)</b> .
Summer 2013-Spring 2014	Reliability Project in Assembly Process	Toyota Motor Manufacturing Texas	\$13,860 (Completed)	<b>Krystel Castillo (PI)</b> .
7/1/2013-6/30/2015	Continuous Improvement and Sustainability at Harland Clarke	Harland Clarke	\$33,000 (Completed)	Hung-Da Wan (PI), Co-PI: <b>Krystel Castillo</b> , Fengshan Chen, Can Saygin, Adel Alaeddini, and Hazem Rashed-Ali.
8/1/2013-5/31/2017	Supply Chain Modeling and Optimization in the Bioenergy Industry (Fellowship)	National Council of Science and Technology (NSF's Mexico)	\$135,241 (Active)	<b>Krystel Castillo (PI)</b> .
9/1/2014-8/31/2015	Integrated Modeling and Optimization of Supply Chain Design for Sustainable Bioenergy Systems	Office of the Vice President for Research, GREAT Award	\$20,000 (Completed)	<b>Krystel Castillo (PI)</b> .
9/1/2014-8/31/2018	Scheduling and Routing Optimization for Supply Chains with Disruption in Transportation (Fellowship)	National Council of Science and Technology (NSF's Mexico)	\$133,020 (Active)	<b>Krystel Castillo (PI)</b> .

9/1/2014-8/31/2018	Opportunities for Higher Education and Research Experience in Renewable Energy and Water Quality to Enable STEM Hispanic Leaders	U.S. Department of Agriculture/National Institute of Food and Agriculture	\$290,000 (Active)	<b>Krystel Castillo (PI)</b> , Co-PI: Heather Shipley, F. Frank Chen, and Marcio Giacomoni.
9/1/2014-8/31/2015	Big Data Analytics Cluster	San Antonio Life Sciences Institute (SALSI)	\$300,000 (Completed)	Yusheng Feng (PI), Co-PI: <b>Krystel Castillo</b> , Yufei Huang, John Quarles, Craig Sisson, Bruce Adams, Yidong Chen, Ed Sako, John Calhoon, Laura Rosenkranz.
4/15/2015-8/31/2015	A Fleet Analysis Demonstration in Collaboration with Austin Energy's Central Texas Fuel Independence Project (CTFIP)	Austin Energy's Central Texas Fuel Independence Project (CTFIP)	\$20,039 (Completed)	Dwain Rogers (PI), Co-PI: <b>Krystel Castillo</b>
8/1/2015 – 12/31/2016	Predictive Maintenance - Phase 2: From Data to Performance Metrics	Harland Clarke	\$90,000 (Active)	Can Saygin (PI), Co-PI: <b>Krystel Castillo</b> , HungDa Wan, Adel Alaeddini.
9/1/2015-8/31/2016	Development of a Low-Cost Robust Circulating Fluidized Technology for Integration into a Novel Mathematical Model to Promote the Sustainable Production of Biofuels and Biobased Products	Office of the Vice President for Research, CONNECT award.	\$125,000 (Active)	<b>Krystel Castillo (PI)</b> , Jimell Erwin and Monica Medrano (PIs at SwRI).
8/1/2015-7/31/2020	Scholarship Program for Undergraduates' Retention and Success (SPURS)	NSF S-STEM	\$626,890 (Active)	Heather Shipley (PI), <b>Krystel Castillo (Co-PI)</b> , Ruyan Guo, and Rena Bizios
8/1/2015-7/31/2017	Process Excellence and Continuous Improvement at Harland Clarke	Harland Clarke Corp.	\$62,000 (Active)	Hung-Da Wan (PI), Co-PI: <b>Krystel Castillo</b> , Fengshan Chen, Can Saygin, Adel Alaeddini.
9/1/2015-8/31/2018	Latina SciGirls: Addressing Barriers to Promote Middle School Age Hispanic Girls' Positive STEM Identity Development Through Media, Outreach and Role Models.	National Science Foundation's Advancing Informal STEM Learning initiative	(Active)	Rita Karl (PI), Richard Hudson (Co-PI), Alicia Santiago (Co-PI), Brenda Britsch (Co-PI). <b>Krystel Castillo (Mentor and role model)</b> .
9/1/2015-8/31/2019	BioEnergy And Water for Agriculture Research and Education (BE AWARE) Network	U.S. Department of Agriculture/National Institute of Food and Agriculture	<b>\$1,000,000</b> (\$250,000 per year for 4 years subject to renewal) (Active)	<b>Krystel Castillo (PI)</b> ,_Co-PI: Mauricio Cabrera (UPR-M), Michael Persans (UTRGV).

9/28/2015-3/31/2017	Biomass Logistics Simulations	Oak Ridge National Laboratory (Department of Energy) managed by UT Battelle	\$60,000 (Active)	<b>Krystel Castillo (PI).</b>
11/1/2015-1/1/2018	Big Data Analytics: Quantification of Dimensional Measurement Uncertainty using 3D Laser Scanners for the Assessment of Manufacturing Variability	Air Force Research Laboratory through Clarkson Aerospace Corp.	\$139,189 (Active)	<b>Krystel Castillo (PI).</b>
3/29/2016-3/30/2019	U-GREAT (Undergraduate Research, Education And Training) program in Bioenergy, Natural Resources, Agriculture Economics and Rural Communities	National Institute of Food and Agriculture	\$275,760 (Active)	<b>Krystel Castillo (PI), Hatim Sharif (Co-PI)</b>
9/1/2016-8/31/2018	Cloud-based Decision Support System Integrating Biomass Quality, Uncertainty and Risk to Optimize the Production of Second-generation Biofuels	South Central Sun Grant	\$150,000 (Active)	<b>Krystel Castillo (PI), Sandra Eksioglu (Co-PI)</b>
9/1/2016-8/31/2017	Increasing Awareness through the Development of a Web-based Educational Tool to Reduce Greenhouse Gas Emissions in Coal Power Plants	Environmental Protection Agency (EPA)	\$15,000 (Active)	<b>Krystel Castillo (PI), Marcio Giacomoni (Co-PI)</b>