

**Taking Odor Mitigation to the Next Level: A Priority for Iowa Agriculture**

<b>Project Management</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Total</b>
Personnel - General	\$1,104,800	\$1,122,021	\$1,150,495	\$1,179,862	\$1,210,150	\$5,767,328
Odor analysis equipment/maintenance	\$679,239	\$30,751	\$32,016	\$32,415	\$32,832	\$807,254
<b>Tier 1 Projects</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Total</b>
Covers - swine, dairy	\$578,398	\$1,203,067	\$625,595	\$0	\$0	\$2,407,059
Biofilters - swine	\$420,073	\$811,276	\$454,351	\$0	\$0	\$1,685,701
Vegetative environmental buffers - swine, layers	\$290,873	\$562,508	\$314,609	\$0	\$0	\$1,167,990
Diet manipulation - all	\$62,438	\$123,435	\$67,532	\$0	\$0	\$253,405
Siting assistance to producers - swine	\$14,421	\$14,998	\$15,598	\$0	\$0	\$45,017
Data collection (6 times per year)	\$140,663	\$585,156	\$867,389	\$630,168	\$164,575	\$2,387,950
<b>Total Tier 1 Projects</b>	<b>\$1,506,866</b>	<b>\$3,300,440</b>	<b>\$2,345,074</b>	<b>\$630,168</b>	<b>\$164,575</b>	<b>\$7,947,122</b>
<b>Tier 2 Projects</b>						
Advanced biofilters - swine	\$0	\$52,105	\$54,224	\$33,879	\$0	\$140,208
Vegetative environmental buffers - beef, dairy	\$46,035	\$61,638	\$78,415	\$51,827	\$52,135	<del>\$273,550</del> 290,050
Biofilters - layers	\$406,917	\$0	\$0	\$0	\$0	\$406,917
Wet scrubbers - layers, swine	\$0	\$432,450	\$0	\$0	\$0	\$432,450
Electrostatic particulate ionization - layers, swine	\$0	\$0	\$359,316	\$0	\$0	\$359,316
Biocurtains - layers, swine	\$0	\$0	\$0	\$623,715	\$0	\$623,715
Topical treatments - layers, turkeys	\$0	\$0	\$0	\$0	\$351,801	\$351,801
Siting model for all species	\$179,200	\$182,368	\$185,663	\$189,089	\$192,653	\$928,973
Data collection (3 weeks/season)	\$59,790	\$227,999	\$387,439	\$387,439	\$585,543	\$1,648,210
<b>Total Tier 2 Projects</b>	<b>\$691,942</b>	<b>\$956,560</b>	<b>\$1,065,057</b>	<b>\$1,285,950</b>	<b>\$1,182,131</b>	<del>\$5,165,140</del> \$5,181,640
<b>Emerging Technology Projects</b>						
Ultraviolet treatment - lab scale	\$423,653	\$245,208	\$252,572	\$0	\$0	\$921,433
Ultraviolet treatment - pilot scale	\$0	\$0	\$0	\$330,590	\$0	\$330,590
Ultraviolet treatment - commercial scale	\$0	\$0	\$0	\$0	\$284,852	\$284,852
Phase 1 - Solid injection	\$0	\$111,518	\$84,194	\$74,020	\$0	\$269,732
Phase 1 - Oil cover on deep pits	\$0	\$44,251	\$45,516	\$40,915	\$0	\$130,682
Phase 1 - Topical application delivery	\$90,505	\$68,841	\$0	\$0	\$0	\$159,346
Phase 2 & other emerging technologies	\$0	\$0	\$0	\$500,000	\$500,000	\$1,000,000
<b>Total Emerging Technology Projects</b>	<b>\$514,158</b>	<b>\$469,818</b>	<b>\$382,282</b>	<b>\$945,525</b>	<b>\$784,852</b>	<b>\$3,096,635</b>
<b>Total Costs</b>	<b>\$4,497,004</b>	<b>\$5,879,590</b>	<b>\$4,974,924</b>	<b>\$4,073,920</b>	<b>\$3,374,541</b>	<del>\$22,783,470</del> \$22,799,979