

# Appendix E: Occupational Prospects by O\*NET Green Categories

As discussed in **Section 5.3** of the report, the research team analyzed Help Wanted Online data in conjunction with other secondary data sets. The following tables provide additional detail on occupational postings in the tri-state region for O\*NET's three green categories: green new and emerging; green enhanced skills; and green increased demand.

## Green Automotive Occupations

The following two tables focus on green automotive occupations in the tri-state region. As noted in **Chapter 5**, there are no HWOL data or projections for green new and emerging jobs in the auto sector, as defined by O\*NET and CAR.<sup>1</sup>

<sup>1</sup> This is due, primarily, to the fact that BLS currently makes 10-year occupation projections using six-digit SOC classifications whereas all green new and emerging occupations are based on eight-digit SOC occupations for which there are no projections.

**Table A-1: Tri-State Top Five Green Increased Demand Automotive Occupations by Job Postings and Expected Job Change to 2018**

Rank	Description	HWOL Green Postings <sup>1</sup>	10-Year Expected Growth <sup>2</sup>	Postings-to-Employment Ratio <sup>3</sup>	Mean Wage <sup>4</sup>
1	Industrial Engineers	10,960	14.2%	1 : 3	\$75,476
2	First-Line Supervisors/Managers of Production and Operating Workers	6,525	-5.2%*	1 : 12	\$55,964
3	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,677	4.3%	1 : 15	\$59,704
4	Computer-Controlled Machine Tool Operators, Metal and Plastic	1,713	6.6%	1 : 16	\$35,287
5	Industrial Machinery Mechanics	878	7.3%	1 : 37	\$48,450

\* Based on BLS projections, first-line supervisors/managers of production and operating workers don't fit into the green increased demand category given that the occupation is expected to decline by 2018.

<sup>1</sup> Source: HWOL, Quarter 4, 2010; All green increased demand auto occupations, N=24,679.

<sup>2</sup> Source: BLS; Projections from 2008 to 2018 are for the parent, six-digit SOC. HWOL and O\*NET now report occupations at the eight-digit SOC level. As a result, those occupations listed in this table are at the more detailed, eight-digit SOC while the projection figures are for the parent six-digit SOC. Hence the projection is for a group of similar occupations and not the specific occupation listed in the table.

<sup>3</sup> Source: IBRC using HWOL and BLS/OES data

<sup>4</sup> Source: 2009 data from BLS. Mean wage calculated for tri-state using a weighted average.

**Table A-2: Tri-State Top Five Green Enhanced Skills Automotive Occupations by Job Postings and Expected Job Change to 2018**

Rank	Description	HWOL Green Postings <sup>1</sup>	10-Year Expected Growth <sup>2</sup>	Postings-to-Employment Ratio <sup>3</sup>	Mean Wage <sup>4</sup>
1	Mechanical Engineers	6,626	6.0%	1 : 7	\$78,759
2	Maintenance and Repair Workers, General	5,004	10.9%	1 : 25	\$36,712
3	Electrical Engineers	2,901	1.7%	1 : 4	\$76,464
4	Machinists	2,307	-4.6%	1 : 28	\$38,823
5	Electronics Engineers, Except Computer	1,444	0.3%	1 : 6	\$81,587

<sup>1</sup> Source: HWOL, Quarter 4, 2010; Green enhanced skills auto occupations, N=20,553.

<sup>2</sup> Source: BLS; Projections from 2008 to 2018 are for the parent, six-digit SOC. HWOL and O\*NET now report occupations at the eight-digit SOC level. As a result, those occupations listed in this table are at the more detailed, eight-digit SOC while the projection figures are for the parent six-digit SOC. Hence the projection is for a group of similar occupations and not the specific occupation listed in the table.






<sup>3</sup> Source: IBRC using HWOL and BLS/OES data

<sup>4</sup> Source: 2009 data from BLS. Mean wage calculated for tri-state using a weighted average.









## Green and Growing Occupations

The following tables focus on green and growing occupations in the tri-state region. All of the tables use the industry group legend shown here.

### Industry Group Legend

 Automotive Manufacturing	 Energy-Related Industries	 Miscellaneous Industries Not Elsewhere Classified
 Environmental Services	 Non-Auto Manufacturing	

**Table A-3: Tri-State Top Five Green New and Emerging Occupations by Job Postings and Expected Job Change to 2018**

Rank	Description	HWOL Green Postings <sup>1</sup>	10-Year Expected Growth <sup>2</sup>	Industry Group <sup>3</sup>	Postings-to-Employment Ratio <sup>4</sup>	Mean Wage <sup>5</sup>
1	Manufacturing engineers	331	6.7%	 	1 : 54	\$80,135
2	Securities and commodities traders	123	6.7%	  	1 : 146	\$80,135
3	Energy engineers	98	7.3%		1 : 288	\$90,286
4	Regulatory affairs specialists	96	7.3%		1 : 294	\$90,286
5	Compliance managers	88	31.1%		1 : 186	\$53,368
<b>Summary</b>		<b>736</b>	<b>11.8%</b>	<b>n/a</b>	<b>n/a</b>	<b>\$78,842</b>

<sup>1</sup> Source: HWOL, Quarter 4, 2010; Green new and emerging occupations, N=1,441.










<sup>2</sup> Source: BLS; Projections from 2008 to 2018 are for parent, six-digit SOC. HWOL and O\*NET now report occupations at the eight-digit SOC detail. As a result, those occupations listed in this table are at the more detailed, eight-digit SOC while the projection figures are for the parent six-digit SOC. Hence the projection is for a group of similar occupations and not the specific occupation listed in the table.

<sup>3</sup> Source: O\*NET; O\*NET categorizes green industries into 12 sectors. For the purposes of this report, the research team recast those 12 sectors into five categories.

<sup>4</sup> Source: IBRC using HWOL and BLS/OES data

<sup>5</sup> Source: BLS. Mean wage calculated for tri-state using a weighted average.

**Table A-4: Tri-State Top Five Green Enhanced Skills Occupations by Job Postings and Expected Job Change to 2018**

Rank	Description	HWOL Green Postings <sup>1</sup>	10-Year Expected Growth <sup>2</sup>	Industry Group <sup>3</sup>	Postings-to-Employment Ratio <sup>4</sup>	Mean Wage <sup>5</sup>
1	Truck Drivers, Heavy and Tractor-Trailer	16,343	13.0%		1 : 10	\$39,190
2	Mechanical Engineers	6,626	6.0%	  	1 : 7	\$78,759
3	Marketing Managers	5,919	12.5%		1 : 2	\$106,051
4	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5,194	9.7%		1 : 8	\$80,298
5	Maintenance and Repair Workers, General	5,004	10.9%	  	1 : 25	\$36,712
<b>Summary</b>		<b>39,086</b>	<b>10.4%</b>	<b>n/a</b>	<b>n/a</b>	<b>\$68,202</b>

<sup>1</sup> Source: HWOL, Quarter 4, 2010; Green enhanced skill occupations, N=74,082.







<sup>2</sup> Source: BLS; Projections from 2008 to 2018 are for parent, six-digit SOC. HWOL and O\*NET now report occupations at the eight-digit SOC detail. As a result, those occupations listed in this table are at the more detailed, eight-digit SOC while the projection figures are for the parent six-digit SOC. Hence the projection is for a group of similar occupations and not the specific occupation listed in the table.

<sup>3</sup> Source: O\*NET; O\*NET categorizes green industries into 12 sectors. For the purposes of this report, the research team recast those 12 sectors into five categories.

<sup>4</sup> Source: IBRC using HWOL and BLS/OES data

<sup>5</sup> Source: BLS. Mean wage calculated for tri-state using a weighted average.

**Table A-5: Tri-State Top Five Green Increased Demand Occupations by Job Postings and Expected Job Change to 2018**

Rank	Description	HWOL Green Postings <sup>1</sup>	10-Year Expected Growth <sup>2</sup>	Industry Group <sup>3</sup>	Postings-to-Employment Ratio <sup>4</sup>	Mean Wage <sup>5</sup>
1	Customer Service Representatives	13,767	17.7%		1 : 13	\$32,898
2	Industrial Engineers	10,960	14.2%	 	1 : 3	\$75,476
3	First-Line Supervisors/Managers of Production and Operating Workers	6,525	-5.2%		1 : 12	\$55,964
4	Laborers and Freight, Stock, and Material Movers, Hand	3,131	-0.8%		1 : 75	\$25,930
5	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,677	4.3%		1 : 15	\$59,704
<b>Summary</b>		<b>37,060</b>	<b>6.0%</b>	<b>n/a</b>	<b>n/a</b>	<b>\$49,994</b>

<sup>1</sup> Source: HWOL, Quarter 4, 2010; Increased demand occupations account for 42.5 percent of all green HWOL postings, N=55,725

<sup>2</sup> Source: BLS; Projections from 2008 to 2018 are for parent, six-digit SOC. HWOL and O\*NET now report occupations at the eight-digit SOC detail. As a result, those occupations listed in this table are at the more detailed, eight-digit SOC while the projection figures are for the parent six-digit SOC. Hence the projection is for a group of similar occupations and not the specific occupation listed in the table.

<sup>3</sup> Source: O\*NET; O\*NET categorizes green industries into 12 sectors. For the purposes of this report, the research team recast those 12 sectors into five categories.

<sup>4</sup> Source: IBRC using HWOL and BLS/OES data

<sup>5</sup> Source: BLS. Mean wage calculated for tri-state using a weighted average.