Companion Document to the:
**Labor Market Information (LMI) Instructions & Guidance**

Delaware Department of Education
**Appendix: Labor Market Information (LMI) Review**
Delaware CTE Program of Study Application

**Table 1: LEA Information**
*(see instructions on page 2, LMI Instructions & Guidance Document)*

| | |
|---|---|
| Career Cluster: | Health Sciences |
| Career Pathway: | Therapeutic Services |
| CTE Program of Study: | Allied Health |
| High School and LEA Name: | |
| County: | |

**Table 2: Labor Market Information (LMI) Benchmarks by Geographic Region**
*(see instructions on page 2, LMI Instructions & Guidance Document)*

| Region | Employment 2014 | Employment Change 2012-22 | Employment Growth 2012-22 | Avg. Wage 2014 |
|---|---|---|---|---|
| United States | 132,588,810 | 15,628,000 | 10.8% | $46,440 |
| Delaware | 412,140 | 40,900 | 9.4% | $49,254 |
| District of Columbia | 674,650 | 57,930 | 7.7% | $78,580 |
| Maryland | 2,557,510 | 189,370 | 6.1% | $53,470 |
| New Jersey | 3,869,260 | 313,190 | 7.5% | $53,920 |
| Pennsylvania | 5,653,840 | 467,940 | 7.7% | $45,750 |
| Virginia | 3,648,490 | 534,210 | 13.5% | $50,750 |

**Table 3: LMI by Career Cluster & Pathway**
*(see instructions on page 4, LMI Instructions & Guidance Document)*

| Cluster Code | Cluster/Pathway Title | High Skill | High Wage | High Demand | 2012-2022 Employment 2014 | 2012-2022 Employment Change 2012-2022 | 2012-2022 Employment Growth 2012-2022 | 2012-2022 Average Wage 2014 |
|---|---|---|---|---|---|---|---|---|
| **8** | **Health Sciences Career Cluster** | ● | ● | ● | **44,851** | **7255** | **16.6%** | **$63,320** |
| | Rank Select Career Cluster by the Following Categories -> | | | | *(4 of 16)* | *(1 of 16)* | *(2 of 16)* | *(5 of 16)* |
| 8.01 | Therapeutic Services Pathway | ● | ● | ● | 35,163 | 5516 | 16.4% | $68,094 |
| | Rank Select Career Pathway by the Following Categories -> | | | | *(1 of 5)* | *(1 of 5)* | *(3 of 5)* | *(1 of 5)* |
| | Therapeutic Services Pathway – Mid-Atlantic States | ● | ● | ● | 1,261,250 | 226,266 | 17% | $64,224 |
| | Therapeutic Services Pathway – United States | ● | ● | ● | **9,850,830** | **2,459,400** | **24.2%** | **$63,495** |
| 8.02 | Diagnostic Services | ● | ● | ● | 2,797 | 523 | 19.2% | $55,596 |
| 8.03 | Health Informatics | | | ● | 4,981 | 1,038 | 20.5% | $33,933 |
| 8.04 | Support Services | ● | | ● | 1,910 | 245 | 14.1% | $63,389 |
| 8.05 | Biotechnology Research and Development | | | | | 67 | 13.7% | |

**Table 3: LMI by Career Cluster & Pathway (Questions/Analysis)**
*(see instructions on page 5, LMI Instructions & Guidance Document)*

1. How does the employment, the employment change, the employment growth rate, and the average wage for the identified career cluster compare to LMI for other clusters in the State of Delaware? Is the career cluster rated as high wage and high demand?

   **The Health Sciences Career Clusters ranks in the top five (5) for employment, employment change, employment growth rate and average wage when compared to other clusters and is ranked first for employment change compared to all other clusters. The career cluster rating is high wage and high demand.**

2. How does the employment, the employment change, the employment growth rate, and the average wage for the identified career pathway compare to LMI at the cluster level? How does the identified pathway level LMI in Delaware compare to the pathway level LMI in the Mid-Atlantic and/or the United States? How does the identified pathway level LMI in Delaware compare to the other pathway level LMI in Delaware?

   **The employment growth for the cluster and pathway are significantly higher than Delaware on average and this trend is mirrored when reviewing LMI for the Mid-Atlantic region and nationally. The average wage for the pathway is nearly $5,000 higher for the therapeutic services pathway than for the career cluster. Regionally and across the country there is high LMI for careers in the Therapeutic Services pathway. There is also the potential for students who complete the Allied Health program of study to enroll in related degree programs or seek employment in SOCs found in the Diagnostic Services Pathway. The therapeutic services pathway has the highest employment, employment change, and average wage of all pathways in the cluster.**

**Table 4: LMI by Standard Occupation Code (SOC)**
*(see instructions on page 6, LMI Instructions & Guidance Document)*

| | | | | | 2012-2022 | | | |
|---|---|---|---|---|---|---|---|---|
| **SOC Code** | **Occupation Title** | **High Skill** | **High Wage** | **High Demand** | **Employment 2014** | **Employment Change 2012-2022** | **Employment Growth 2012-2022** | **Average Wage 2014** |
| 29-2021 | Dental Hygienist | ● | ● | ● | 719 | 86 | 13.8% | $70,660 |
| 29-1126 | Respiratory Therapist | ● | ● | ● | 361 | 73 | 17.9% | $64,860 |
| 29-1141 | Registered Nurse | ● | ● | ● | 10,428 | 1,586 | 15.7% | $70,160 |
| 29-1123 | Physical Therapist | ● | ● | ● | 657 | 141 | 24.4% | $81,200 |
| 29-2055 | Surgical Technologist | ● | ● | ● | 280 | 354 | 26.4% | $42,990 |
| 29-2034 | Radiologic Technologist | ● | ● | ● | 626 | 72 | 14.8% | $58,890 |
| 29-2032 | Diagnostic Medical Sonographer | ● | ● | ● | 168 | 46 | 37.4% | $69,890 |

**Table 4: LMI by Standard Occupation Code (SOC) (Questions/Analysis)**
*(see instructions on page 7, LMI Instructions & Guidance Document)*

3. How closely related to the program of study are the identified occupations (SOCs)?

**Dental hygiene, respiratory therapy, nursing, physical therapy, and surgical technology are all closely related to the Allied Health program of study and have strong connections to post-secondary programs in the state. Allied Health students will be required to complete algebra and general chemistry and will earn college credit through articulated credits and dual-enrollment credits to enter related degree programs in this career field.**

4. Are there adequate state-level projected job openings or employment growth projections at the occupation level to justify starting a new program of study? Do the occupations related to the program of study rank as high skill, high wage and/or high demand?

**The number of job openings projected for the cluster and pathway as well as the related SOCs will support an Allied Health program of study. All related SOCs and the cluster and pathway are rated as high skill, high wage, and high demand jobs.**

**Table 5: LMI Supply Indicators by Secondary & Post-Secondary Levels**
*(see instructions on page 8, LMI Instructions & Guidance Document)*

| Program Code (CIP) | Program (CIP) Title | School | Program Completion/Enrollment 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|---|---|---|---|---|---|---|
| **Total Secondary Programs of Study** | | | | | | |
| 31-9091 | Dental Assisting | Howard, Delcastle, Hodgson, Polytech, Sussex Tech | 75 | 75 | 75 | |
| 31.1014 | Medical Assisting | Delcastle, Howard, St. Georges, Polytech | 94 | 94 | 94 | |
| **Total Post-Secondary Programs of Study** | | | | | | |
| 29-2021 | Dental Hygiene | DTCC/Stanton/Wilmington | 20 | 22 | 23 | |
| 31-9092 | Medical Assisting | Dawn, Harris, DTCC | 559 | 779 | 608 | |

**Table 5: LMI Supply Indicators by Secondary & Post-Secondary Levels (Questions/Analysis)**
*(see instructions on page 9, LMI Instructions & Guidance Document)*

5. How is the secondary program of study articulated to or in any way related to the identified post-secondary program(s)?

**The Allied Health Program of Study is a broad program that connects to several post-secondary degree and certification programs at both two- and four- year institutions of higher education. Specifically, the Allied Health program of study will prepare students for related study in respiratory services, imaging services, physical rehabilitation, medical office services, nursing sciences, dental sciences, medical laboratory services, and emergency medical services.**

6. How does the annual completion data at the secondary and post-secondary level compare to the projected career pathway-related projected job openings in Table 4?

   **As illustrated by the number of enrolled students, there is a high interest in Health Science programs at the post-secondary level. Therefore, an Allied Health Program at the secondary level will better prepare students with Health Science skills and knowledge to enter post-secondary programs. This work will lead to students achieving advanced standing while in high school and lessening the amount of time required to enter the healthcare workforce.**

**Table 6: Other LMI Data Including Real-Time LMI (Questions/Analysis)**

*(see instructions on page 10, LMI Instructions & Guidance Document)*

7. Are there additional LMI data (demand & supply) at the local, county, state, or Mid-Atlantic region that support starting a new program of study in this pathway? This includes additional occupations for which there is not an SOC, any other analysis of LMI data, and any additional information on demand & supply factors that influence employment which can include real-time labor market information.

   **Real-Time LMI Report will be published in the summer of 2016, prior to program start-up.**