# INFORMATION TECHNOLOGY CAREER CLUSTER
## PATHWAY: PROGRAMMING & SOFTWARE DEVELOPMENT

| DEGREE/TRAINING REQUIRED<br><br>Standard Occupational System (SOC) Code | OCCUPATION | KANSAS MEDIAN SALARY[i] | % CHANGE / EMPLOYMENT PROSPECTS | |
|---|---|---|---|---|
| | | | KANSAS 2004-2014[ii] | USA 2006-2016[iii] |
| **-Associate Degree**<br>**-Certifications**<br>**-On the Job Training**<br>**-2 Yr. Community/Technical Colleges**<br>**-Registered Apprenticeship** | | | | |
| 15-1041 | Computer Support Specialists: Software Applications QA Specialist / Software Applications Tester | $18.08/hr. | +19% | +13% |
| **Bachelor's Degrees**<br>**Colleges / Universities** | | | | |
| 15-1031 | Computer Software Engineers, Applications:<br>Applications Analyst / Applications Engineer / Applications Business Analyst / Applications Computer Engineer / Software Applications Specialist / Software Applications Architect / Software Applications Design Engineer / Software Applications Development Engineer / Software Applications Engineer | N/A | N/A | +45% |
| 15-2031 | Operations Research Analysts:<br>Applications Data Modeler | N/A | N/A | +11% |
| 15-1032 | Computer Software Engineers, Systems Software: Operating Systems | $36.00/hr. | +38% | +28% |

[i] Salary data from the Kansas Department of Labor, 2007 Kansas Wage Survey
[ii] 2004-2014 Kansas Occupational Outlook Study, http://www.dol.ks.gov
[iii] 2008-2009 National Employment Occupational Outlook Handbook, http://www.bls.gov/oco

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| | | | KANSAS 2004-2014[ii] | USA 2006-2016[iii] |
| | Designer/Engineer / Systems Test Engineer / Systems Tester | | | |
| 15-1041 | Computer Support Specialists: Software Applications QA Specialist / Software Applications Tester | $18.08/hr. | +19% | +13% |
| 15-1081 | Network Systems and Data Communications Analysts: Operating Systems Programmer/Analyst | $26.84/hr. | +45% | +53% |
| 15-1021 | Computer Programmers: Operating systems Programmer / Operating Systems Programmer/Analyst | $29.56/hr. | 0% | -4% |
| **Graduate Degrees Colleges/Universities** | | | | |
| 15-1071 | Network and Computer Systems Administrators: Systems Administrator / Operating Systems Project Lead | $26.99/hr. | +31% | +27% |
| 15-1051 | Computer Systems Analysts: Network Analyst / Network Systems Support Lead | $29.87/hr. | +22% | +29% |

N/A = Data Not Available

| Employment is projected to: | Growth compared to average: |
|---|---|
| increase 21 percent or more | Grow much faster than average |
| increase 14 to 20 percent | Grow faster than average |
| increase 7 to 13 percent | Grow about as fast as average |
| increase 3 to 6 percent | Grow more slowly than average |
| decrease 2 percent to increase 2 percent | Little or no change |
| decrease 3 to 9 percent | Decline slowly or moderately |
| decrease 10 percent or more | Decline rapidly |