New Zealand
ICT
Tertiary Education & Job Series
July 2011

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Note:
Indicates new/significant change
Insights

- **Enrolments & Completions:**
  - for the tertiary sector (ITPs, PTEs & Universities)
    - Diploma & degree EFTS enrolments are increasing
    - Diploma completions are increasing
    - Degree completions are decreasing

- **Jobs:**
  - for the month of July
    - Auckland experienced a 5% increase in Seek ICT job adverts
    - Waikato experienced a 14% increase in Seek ICT job adverts
    - Overall all NZ ICT jobs advertised on Seek rose 4% [Trademe increased just 0.6%]
Tertiary sector ICT EFTS (Equivalent Full Time Student) enrolments:

- Decreased by 39% between 2003 and 2007
- Increased by 20% between 2007 and 2009

Source: Education Counts (Accessed July 2011)
Institutes of Technology & Polytechnics (ITP)
ICT Enrolment Trends
(Certificates, Diplomas & Degree EFTS)
2002 to 2011

- ITP/Polytechnic sector ICT EFTS enrolments (Based on data collected by CITRENZ)
  - Decreased by 49% between 2002 and 2007
  - Increased by 45% between 2007 and *2011 (Still 1000 fewer EFTS enrolments in 2011 than in 2002)

*Based on an estimated increase of 10% for the 2011 year
Total enrollments among U.S. computer science undergraduates increased 10 percent in 2010

Third straight year of increases in total enrollment

Indicates that the post “dot-com crash” decline in undergraduate computing program enrollments is over.

Source: CRA Taulbee Survey – April 2011
Tertiary Sector ICT Diploma Completion Trends
[Domestic & International]
2004 to 2009

Between 2007 and 2009 diploma completions more than doubled

Source: Education Counts (Accessed July 2011)
Tertiary Sector Completion Trends
ICT Bachelor [Domestic & International]
2004 to 2009

Degree completions:

- Decreased 36% from 2004 to 2007 (Tracking falling enrolments)
- Continue to decrease (a further 16% from 2007 to 2009)

Source: Education Counts (Accessed July 2011)
IT job vacancies increased by approximately 60% over the same period [2003 to 2007] that tertiary ICT enrolments declined by approximately 40%
Seek IT Job Trends NZ
2011

Source: Seek ICT (Accessed July 2011)
Seek ICT Growth in Job Adverts
January - July
2011

Source: Seek ICT (Accessed July 2011)
ICT Job Adverts NZ
Seek & Trademe

Source: Seek ICT (Accessed July 2011)
Seek ICT Job Adverts NZ
January - July 2011

<table>
<thead>
<tr>
<th>Month</th>
<th>Auckland</th>
<th>Waikato</th>
<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
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</thead>
<tbody>
<tr>
<td>Jul-11</td>
<td>1837</td>
<td>65</td>
<td>891</td>
<td>255</td>
<td>3127</td>
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<tr>
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<td>229</td>
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<td>825</td>
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<td>785</td>
<td>144</td>
<td>2603</td>
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<td>960</td>
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<td>532</td>
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</table>

Source: Seek ICT (Accessed July 2011)
Seek ICT Job Adverts by Industry Certification July 2011

Wellington has the only significant monthly increase of 7% across all 3 categories.

Source: Seek ICT (Accessed July 2011)
Seek ICT Job Adverts by Programming Language
July 2011

<table>
<thead>
<tr>
<th></th>
<th>Auckland</th>
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<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
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<td>C#</td>
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<td>.NET</td>
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<td>Java</td>
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<td>10</td>
<td>169</td>
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<td>657</td>
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</table>

Source: Seek ICT (Accessed July 2011)
Comment on Seek ICT Job Adverts by Programming language

- Auckland:
  - Experienced a 25% monthly increase in job adverts filtered on PHP
  - Experienced a 10% monthly increase in job adverts filtered on Java
  - Experienced an increase of 8% for the month across all 4 categories

- Wellington:
  - Experienced an decrease of 5% for the month across all 4 categories

- Christchurch:
  - Experienced an decrease of 20% for the month across all 4 categories

Seek ICT NZ Job Adverts PHP & Java Comparison
July 2011
Australia: Information Technology Contract and Recruitment Association (ITCRA) (May 2011):

- On the cusp of an employment skills shortage in the ICT sector
- The group's inaugural Skillsmatch ICT Skills Dashboard revealed;
  - An average of 26.3 days taken to hire a new ICT employee, an increase of six days in the past year
  - In the same period, the number of suitable candidates for each role has decreased from 7.7 candidates to 6.8 candidates
- The top five skills employers and recruiters are requesting are;
  - Help desk experience
  - Project management
  - Java
  - SQL
  - Windows

Source: International Business Times (Accessed July 2011)
ComputerWorld: **Hiring process lengthening in tighter market**

**Good quality candidates are getting harder to source, survey finds**

[By David Watson | Auckland | Thursday, 23 June, 2011]

**Potentia Recruitment** managing director Josh Comrie;

- “*The market today is one that has very much gone back to the one last seen in 2007*”.................“*It is candidate-short.*”

- In-demand skill sets include senior network design, infrastructure design and software design roles - “*It is the architecture roles.*”

- C# and Java developers are also in demand and the Flash Flex development toolset is also “becoming very popular”

Source: [ComputerWorld](#) (Accessed July 2011)
Conclusion:

- CS/ICT undergraduate enrolment trends in NZ mirror those in the USA
- NZ ICT jobs advertised on Seek up 32% on this time last year
- The July 2011 Seek ICT job advert figure of 3,127 is only 10% below the peak of 3,487 in September 2007 (Prior to the recession)
- NZ ICT job numbers advertised on Trademe consistently above the September 2007 peak from February 2011
- CS/ICT completion rates in NZ are not keeping pace with job vacancies – the skills gap is increasing, once again

If you have an interest in a specific ICT job category please contact [garry.roberton@wintec.ac.nz](mailto:garry.roberton@wintec.ac.nz)