New Zealand

ICT

Tertiary Education & Job Series

November 2011

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Note:

Indicates new/significant change
Insights

- **Tertiary ICT Education - Māori**:  
  - Māori participation rates in tertiary education across all levels & all fields compare well (18%) with the proportion of Māori (15%) in the total population.  
  - However, Māori participation rates for ICT are significantly lower;  
    - 12% for diplomas (levels 5 to 7)  
    - 7% for degrees

- **Jobs [Last month ()]**:  
  - NZ Seek ICT jobs adverts for the month of November;  
    - All NZ fell by 5% (+1%) (Up 14.6% on November 2010)  
    - Auckland down 2% (-1%), Wellington down 1% (+2%) and Canterbury down a significant 30% (+9%)  
    - Waikato experienced a 58% decrease (+2%)  
  - Trademe (all NZ) decreased by 6% (+2%) (Up 16% on November 2010)
Māori 15% of NZ Population & Growing

- European (70%)
- Māori (15%) and growing in proportion
- Asians (9%)
- Non-Māori Polynesians (6%)

Māori participation in tertiary education reduced at higher levels

[Domestic Equivalent Full Time Tertiary Student Units by Ethnic Groups 2010]

All Ages & All Levels

- European: 56%
- Maori: 26%
- Other: 18%

All Ages Levels 5 to 7

- European: 16%
- Maori: 14%
- Other: 70%

New for November

Source: Education Counts (Accessed November 2011)
Māori participation rates for ICT diplomas almost double those for degrees

[Domestic ICT Tertiary Enrolments by Ethnicity 2010]

ICT Diploma EFTS

ICT Degree EFTS

Source: Education Counts (Accessed November 2011)
IT experienced the strongest growth in September 2011

[DoL Skilled Vacancies Index (SVI) by Industry and Occupation Group, Seasonally Adjusted]

Source: DoL (Accessed November 2011)
Growth in skilled job vacancies varied by industries and occupations:

- IT (up by 12.5%) and education and training (up by 10.6%) had the strongest growth in September.
- Industries with the biggest fall were:
  - hospitality and tourism (down by 5.3%) and
  - accounting, HR, legal and administration (down by 5.2%)
- Skilled job vacancies increased across all industries, compared with a year ago.
  - The construction and engineering industry (up by 44.6%) was the strongest, largely due to the reconstruction activities in Canterbury.
Seek IT Job Trends NZ 2011

Source: Seek ICT (Accessed November 2011)
Seek ICT Job Adverts
Monthly Change for November 2011

Source: Seek ICT (Accessed November 2011)
Seek ICT Job Advert Trends
Year to November 2011

Source: Seek ICT (Accessed November 2011)
2007 Peak before recession

ICT Job Adverts NZ
Seek & Trademe

Source: Seek ICT (Accessed November 2011)
## Seek ICT Job Adverts

### Year to November 2011

<table>
<thead>
<tr>
<th></th>
<th>Auckland</th>
<th>Waikato</th>
<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
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<tbody>
<tr>
<td>Nov-11</td>
<td>1579</td>
<td>36</td>
<td>714</td>
<td>181</td>
<td>2568</td>
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<tr>
<td>Oct-11</td>
<td>1612</td>
<td>57</td>
<td>723</td>
<td>236</td>
<td>2692</td>
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<tr>
<td>Sep-11</td>
<td>1629</td>
<td>56</td>
<td>707</td>
<td>214</td>
<td>2662</td>
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<td>Aug-11</td>
<td>1772</td>
<td>72</td>
<td>727</td>
<td>242</td>
<td>2870</td>
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<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>
<td>Jun-11</td>
<td>1751</td>
<td>57</td>
<td>880</td>
<td>229</td>
<td>3000</td>
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<td>May-11</td>
<td>1635</td>
<td>59</td>
<td>785</td>
<td>184</td>
<td>2732</td>
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<tr>
<td>Apr-11</td>
<td>1516</td>
<td>67</td>
<td>825</td>
<td>188</td>
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<td>Mar-11</td>
<td>1530</td>
<td>68</td>
<td>785</td>
<td>144</td>
<td>2603</td>
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<td>Feb-11</td>
<td>1559</td>
<td>66</td>
<td>800</td>
<td>151</td>
<td>2662</td>
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<tr>
<td>Jan-11</td>
<td>960</td>
<td>42</td>
<td>532</td>
<td>123</td>
<td>1712</td>
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Source: [Seek ICT](http://www.seekict.co.nz) (Accessed November 2011)
Seek ICT Job Adverts by Industry Certification
November 2011

<table>
<thead>
<tr>
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<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
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<tr>
<td>Microsoft</td>
<td>250</td>
<td>8</td>
<td>105</td>
<td>36</td>
<td>408</td>
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<tr>
<td>Cisco</td>
<td>156</td>
<td>4</td>
<td>50</td>
<td>16</td>
<td>236</td>
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<td>Linux</td>
<td>516</td>
<td>12</td>
<td>171</td>
<td>56</td>
<td>782</td>
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</table>

Note: Almost no change

Source: Seek ICT (Accessed November 2011)
Seek ICT Job Adverts Filtered by Management Certifications

Notes:
• All 3 management certifications may be referenced in the same job advert.

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

<table>
<thead>
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<th></th>
<th>Auckland</th>
<th>Waikato</th>
<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
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</thead>
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<td>.NET</td>
<td>181</td>
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<td>280</td>
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<td>PHP</td>
<td>358</td>
<td>3</td>
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<td>C#</td>
<td>137</td>
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<td>52</td>
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<td>386</td>
<td>0</td>
<td>140</td>
<td>53</td>
<td>601</td>
</tr>
</tbody>
</table>

Source: Seek ICT (Accessed November 2011)
Seek IT Job Adverts
Comparison by Languages
Oct-Nov 2011

Inner = Oct
Outer = Nov
6% overall monthly decrease in adverts for languages

Source: Seek ICT (Accessed November 2011)
Java Skills in IT jobs Advertised across the UK
November 2011

Source: IT Job Watch UK (Accessed November 2011)
Java Skills in the UK
November 2011

As Percentage of all Permanent IT Jobs

- 14%
- 16%
- 16%

As Percentage of the Programming Languages Category

- 27%
- 29%
- 31%

Source: [IT Job Watch UK](http://www.itjobwatch.co.uk) (Accessed November 2011)
President Obama & industry groups call on colleges to graduate 10,000 more engineers a year and 100,000 new teachers with majors in STEM — science, technology, engineering and math

Dr. Goldberg, who retired last year as an engineering professor at the University of Illinois at Urbana-Champaign thinks the president’s chances of getting his 10,000 engineers is “essentially nil.”

High-tech Sector Beats the Bank

The Technology Investment Network Report covers three sub-sectors;

- ICT
- Biotechnology
- High-tech manufacturing

Information and Communications Technology (ICT) revenues grew 13%

High-tech sector revenue passes $7 billion for the first time

Third biggest exporter with 4% growth to over $5b

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...current NZ ICT workforce inadequate for the tasks that lie ahead

...we’re not training sufficient specialists to meet the ICT needs.......

...ICT careers not seen as desirable or ‘sexy’ lessening demand for courses in these disciplines...... (David Stone, TCF CEO
Conclusion

- **Education:**
  - Lower participation rates in ICT education, at 12% for diplomas and 7% for degrees, provide strong incentives for encouraging young Māori to qualify for jobs in one of the highest paid professions in NZ.
  - Building Māori participation in the industry is vital, given the projected demographics of falling secondary school numbers, an aging population and an insatiable demand by the ICT industry for suitably qualified and skilled employees.

- **Jobs:**
  - IT experienced the strongest growth at 12.5%, by Industry and Occupation Group, in September 2011, according to the DoL Skilled Vacancies Index (SVI).
  - High-tech sector revenue passes $7 billion for the first time and is now the third biggest exporter with 4% growth to over $5 billion.

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