New Zealand
ICT
Tertiary Education & Job Series
April 2012

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Note:

Indicates new/significant change
Insights

ICT Jobs in April 2012
- NZ Seek ICT jobs adverts decreased 14% on March figures
- NZ Seek ICT jobs adverts are down 9% on the same month last year, while up 32% on April 2010
- Demand holding up in Canterbury
- Government cuts impacting Wellington demand and/or contracts finished? [Down 24% on last month]

Industry Challenges
- Serious concerns in the UK about the way children in schools are being taught information technology
- Lack of publicity making it difficult to hire skilled IT people in Hamilton
- Global shortage of IT knowledge/skills including;
  - Java
  - .NET
  - C++
Seek & Trademe
ICT Job Advert Trends
All NZ

2007 Peak before recession

Source: Seek ICT (Accessed April 2012)
Seek ICT Job Advert Monthly Trends 2010 - 2012

Source: Seek ICT (Accessed April 2012)
Seek ICT Job Advert Trends  
Year to April  
2012

Source: Seek ICT (Accessed April 2012)
Seek ICT Job Advert Trends Change for the Month of April 2012

Source: Seek ICT (Accessed April 2012)
**Seek ICT Job Adverts by Industry Certification**
**April 2012**

Monthly change for:
- Microsoft – decreased 36% for Wellington [Wellington +22% last month]
- Cisco - decreased 7.5% for all NZ [All NZ +7% last month]
- Linux – increased 5% for Canterbury [All NZ -6%]

![Bar chart showing job adverts by location and industry]

<table>
<thead>
<tr>
<th></th>
<th>Auckland</th>
<th>Waikato</th>
<th>Wellington</th>
<th>Canterbury</th>
<th>Total NZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft</td>
<td>225</td>
<td>5</td>
<td>85</td>
<td>36</td>
<td>371</td>
</tr>
<tr>
<td>Cisco</td>
<td>134</td>
<td>3</td>
<td>34</td>
<td>22</td>
<td>210</td>
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<tr>
<td>Linux</td>
<td>505</td>
<td>10</td>
<td>173</td>
<td>67</td>
<td>783</td>
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Source: Seek ICT (Accessed April 2012)
Seek ICT Job Adverts Filtered by Management Certifications
April 2012

Monthly change for all NZ;
• PMP decreased 23%
• Prince decreased 21%
• ITIL decreased 16%

Source: Seek ICT (Accessed April 2012)
The 10 best IT certifications: 2012 (TechRepublic – Accessed April 2012)

By Erik Eckel March 26, 2012, 6:34 AM PDT

1. Microsoft Certified IT Professional (MCITP) [21 job adverts]
2. Microsoft Certified Technology Specialist (MCTS) [4 job adverts]
3. VMware Certified Professional (VCP) [7 job adverts]
4. Cisco Certified Internetwork Expert (CCNA) [43 job adverts]
5. Certified SonicWALL Security Administrator (CSSA)
6. Project Management Professional (PMP) [156 job adverts]
7. Certified Information Systems Security Professional (CISSP) [20 job adverts]
8. Apple Certified Support Professional (ACSP)
9. CompTIA’s Network+ / A+
10. CompTIA Healthcare IT Technician

   • With an aging population, U.S.-based IT pros (in particular) should consider earning CompTIA’s Healthcare IT Technician credential

Note: [ ] current job adverts on Seek ICT for all NZ
Seek ICT Job Adverts by Programming Language
April 2012

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<th>Canterbury</th>
<th>Total NZ</th>
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<td>.NET</td>
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<td>C#</td>
<td>169</td>
<td>1</td>
<td>39</td>
<td>36</td>
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<td>Java</td>
<td>423</td>
<td>6</td>
<td>170</td>
<td>54</td>
<td>665</td>
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</table>

Monthly change for all NZ:
- .NET decreased 22%
- PHP decreased 4%
  - Canterbury countered the trend with a 26% increase
- C# decreased 16%
- Java decreased 6%

Source: Seek ICT (Accessed April 2012)
April Headline: Java and C swap places at the top of the TIOBE index.

Source: TIOBE (Accessed April 2012)
TIOBE Programming Community Index for April 2012

April Headline: Java and C swap places at the top of the TIOBE index

- Java's long term downward trend line finally crosses C's stable (almost flat) popularity line.
- Java is not expected to decline much further due to the popularity of the Android platform.
- Looking at the extrapolation of moving averages for both languages C is able to remain number one for at least another couple of months.
- Other interesting moves this month:
  - The entrances of Visual FoxPro (#42), Scala (#45) and Alice (#48) in the top 50.
  - Programming languages Eiffel, PL/I and Tcl are out of the top 50.

Source: TIOBE (Accessed April 2012)
Seek ICT Job Adverts by Role
April 2012

Monthly change for all NZ – demand for;
- System Support decreased 17%
- Network (All categories) decreased 14%

Source: Seek ICT (Accessed April 2012)
Seek ICT Job Advert Trends
IT Architect
April 2012

TOGAF qualified architect salary range $130k to $150k

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<td>TOGAF 9</td>
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<tr>
<td>VmWare</td>
<td>60</td>
<td>9</td>
<td>8</td>
<td>3</td>
<td>87</td>
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</table>

Note: a large monthly increase in job adverts for VmWare;
- Auckland – increased by 53
- Canterbury & Waikato – zero last month

Source: Seek ICT (Accessed April 2012)
Seek ICT Job Adverts
Filtered by DBA/Developer
April 2012

Monthly change;
- Wellington – SAP declined 21%
- All NZ – SQL declined 21%

Source: Seek ICT (Accessed April 2012)
According to Paul Coby, chairman of the CIO board of eSkills UK, the UK is in the grip of an IT skills crisis;

- eSkills estimates the UK will need an additional 110,000 new IT workers to enter the workforce each year
- Overall the number of applicants to computing courses in the UK is only about one third of the new intake that the IT industry needs
- The disparity between supply and demand looks set to continue, with the proportion of new jobs in the IT sector growing nearly five times faster than the UK average
- Only 18 per cent of IT professionals in the UK are women
- An IT GCSE being developed by eSkills and its partners to focus on areas such as:
  - programming
  - games design
  - web
  - mobile app development
- Students from countries including India and China are embracing careers in technology
  - applications from overseas students remains “very high”
Financial, IT and ‘green’ energy and construction skills are topping the list of skills in greatest demand in the global job market (Hays recruitment specialist)

- Specific IT skills that are in short supply globally include knowledge of
  - JAVA
  - .NET
  - C++

There are IT jobs beyond the Bombays (Computerworld April 2012)

Misconceptions about Hamilton and lack of publicity are making it difficult to hire skilled IT people (Rob Heebink, General Manager, Gallagher Group Research & Development)

- Heebink’s research team includes 65 IT staff working on a range of IT projects from software development to networks
- Gallagher plans on hiring a further eight to ten IT workers over the next year
- Finding specialists, especially those with .NET skills, is difficult
News Bytes

Why all our kids should be taught how to code (The UK Guardian March 2012)

There is a growing consensus that the way children in schools are being taught information technology is in need of a radical overhaul

- Universities want to reverse the decline in applicants for computer science courses
- Gaming companies want more programmers
- The government wants more high-tech start-ups
- Manufacturers want trainees who can design embedded systems.
- And head teachers want bigger budgets for even more computer labs.

According to John Naughton a big vision is required, as follows;

“Starting in primary school, children from all backgrounds and every part of the UK should have the opportunity to: learn some of the key ideas of computer science; understand computational thinking; learn to program; and have the opportunity to progress to the next level of excellence in these activities”
News Bytes

**NZ Herald 17th April 2012** Job outlook up as firms look to hire

Information technology was the most buoyant sector with 43.3 per cent of companies intending to increase staff.

**Strong demand for IT staff [Trademe IT Jobs]**

- Information technology features strongly in the number of advertised vacancies in the first quarter of this year – up 18% on the same time in 2011
- There is constant demand for IT people - a common theme throughout 2011 and now 2012
- IT also featured strongly in Trade Me Jobs' analysis of pay rates - the highest advertised pay rate was for an average salary of $125,505

**Overall job listings**

- Christchurch – rebuilding driving strong growth
- Auckland & Wellington - growth below the national average
This month's 14% decline in ICT job adverts on Seek ICT NZ needs to be viewed in the wider context of the trend towards an increasing global shortage of suitably qualified graduates and skilled/knowledgeable ICT workers.

There is a continuing need to address future demand for ICT knowledge/skills by

- Promoting ICT as a rewarding job/career
- Increasing ICT enrolments in higher/tertiary education
- Providing incentives for skilled ICT personnel to stay in NZ [or to return to NZ after their OE]
- Encouraging skilled ICT immigrants

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