New Zealand
ICT
Tertiary Education & Job Series
August 2011

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Note:
Indicates new/significant change
Insights

- **Enrolments:**
  - NZ ICT diploma & CS bachelor degree female participation rates in 2009 ([Education Counts](#)) were 23% & 28% respectively
  - USA - among the [CRA](#) member schools, the share of bachelor’s degrees in CS granted to females rose to 13.8% in 2010, an increase of 2.5 percentage points over 2009
  - Europe – female participation rates in CS & CE sitting at 28% in 2009

- **Jobs:**
  - NZ Seek ICT jobs adverts for the month of August;
    - Auckland down 4%, Wellington down 18% and Canterbury down 5%
    - Waikato experienced an 11% growth rate, the second consecutive increase of significance (14% last month)
    - All NZ fell by 8% (Down 2% same period 2010)
  - Trademe (all NZ) decreased by 9% (Up 5% same period 2010)
ICT Diplomas
Domestic EFTS
by Age & Gender, 2009

Equivalent Full Time Students

Distribution by Gender

Female
Male

23%
77%

Source: Education Counts (Accessed August 2011)
Note: Evidence suggests that the female participation rate is consistent here in NZ and rising slightly in the USA.

Source: Education Counts (Accessed August 2011)
Seek IT Job Trends NZ
2011

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

Source: Seek ICT (Accessed August 2011)
Seek ICT Job Advert Trends
January - August 2011

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

Source: Seek ICT (Accessed August 2011)
Seek ICT Job Adverts NZ
January - August 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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<tr>
<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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<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>
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<td>67</td>
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<tr>
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<td>66</td>
<td>800</td>
<td>151</td>
<td>2662</td>
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<td>960</td>
<td>42</td>
<td>532</td>
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<td>1712</td>
</tr>
</tbody>
</table>

Source: Seek ICT (Accessed August 2011)
Waikato & Canterbury experienced an increase in Linux adverts of 60% and 11% respectively for the month.

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

Distribution

- PMP: 28%
- Prince [2]: 28%
- ITIL: 44%

New for August 2011

Note:
All 3 management certifications may be referenced in the same job advert.
TechRepublic Certifications & Salary Report 2011

- PMP® Project Management Professional
- CISSP Cert Info Sys Security Professional
- CCDA Cisco Certified Design Associate
- CCNP Cisco Certified Network Professional
- ITIL v2 Foundation
- ITIL® v3 Foundation
- VMware Certified Professional
- Project+
- VoIP/Telephony
- MCSE MS Certified Systems Engineer
- MCITP Enterprise Administrator
- CCNA Cisco Certified Network Associate
- MCITP MS Certified IT Professional
- CompTIA Security+
- MCSA MS Certified System Administrator
- MCITP Server Administrator
- MCTA Windows Vista, Configure
- MCTS Windows Server 2008 Active Directory Configuration
- Server+
- MCDST MS Certified Desktop Support Technician

TechRepublic (Accessed July 2011)
Waikato experienced a doubling of job adverts for Java & .NET for the month. Job adverts for PHP increased 50%.

Source: Seek ICT (Accessed August 2011)
Seek ICT Job Adverts for Java Programmer/Developer
August 2011

- 82% Prog/Dev [Java]
- 18% Prog/Dev Other Languages

Seek ICT NZ Job Adverts
Top 3 Languages
August 2011

- 44% Java
- 39% PHP
- 17% C#

Revised for August 2011 - C# now included

Source: Seek ICT (Accessed August 2011)
TIOBE Programming Community Index

Headline for August 2011:

- F#, a new functional programming language available in the latest version of Microsoft's Visual Studio (2010), has entered the top 20 for the first time

Source: TIOBE (Accessed August 2011)
Seek ICT Job Adverts by Role [August]

- Programmer/Developer: 27%
- System Support: 24%
- Help Desk: 18%
- Network (All categories): 24%
- All Other Roles: 7%

New for August 2011

Source: Seek ICT (Accessed August 2011)
Trademe IT Salary Information by Role
Jan-June 2011

Sales & pre-sales
Project management
Architects
Management
Functional consultant
Telecommunications
Security
Business analyst
Testers
Programming & development
Networking & systems
Database
Web design
Trainers
Help desk

$0 $20,000 $40,000 $60,000 $80,000 $100,000 $120,000

Median pay

Trademe Salary Guide (Accessed August 2011)
Observations

- The top 3 salaries by roles, according to a recent Trademe Survey, are:
  - Sales & Pre-sales
  - Project Management
  - Architects

- The top 5 salaries by certification, according to a recent TechRepublic survey, are:
  - Project Management Professional (PMP)
  - Cert Info Sys Security Professional (CISSP)
  - Cisco Certified Design Associate (CCDA)
  - Cisco Certified Network Professional (CCNP)
  - ITIL v2 Foundation
News Bytes

A Selection of the Hottest Jobs in Information Technology, according to CIO, are:

- Java & .NET Developer
- Project Manager
- Data Modeller
- Software Implementation Analyst
- Database Administrator
- IT Security Manager
- Business Continuity Manager
- Applications Architect
- RFID Systems Engineer

(CIO Accessed August 2011)
News Bytes

According to the latest (NZ) Hudson Report for the July-September Quarter:

- Hiring intentions in the information technology sector (31.4%) are at the highest level in over six years.
- More than half of employers (56.2%) surveyed plan to increase permanent headcount.
- The industry is thriving in the lower North Island, up 18.6pp compared to the first quarter of 2011.
- The temporary/contracting hiring intentions for the information technology sector are at the highest level (31.4%) for nearly six years.

Hudson (Accessed August 2011)
Conclusion:

- The challenge for both the ICT industry and tertiary institutions is to continue to find ways to make a career in ICT more attractive to the female cohort.

**Journal of Information Technology Education: Innovations in Practice Quote:**

“The under-representation of females in ICT studies and careers results not only in a massive loss of talent for ICT companies and economies, but also in a technology divide that perpetuates disadvantage among women in general and women of low socio-economic status in particular.”

- NZ ICT jobs adverts compared with August 2010;
  - Seek up 24%
  - Trademe up 18%

- Next months edition will include a section on the current state of the Australian ICT job market

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