

Tertiary ICT Enrolments and Job Vacancies: Reflecting on Trends

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Introduction

National and international publications, such as Computerworld and TechRepublic, regularly feature articles publicising the growing global ICT skills shortage.

Here in NZ it is apparent that the ICT industry leaders are extremely concerned about the impact of the skills shortage on the potential growth of the sector and NZ's productivity.

Publication of the author's monthly ICT trend series on the CIT-RENZ website highlights this increasing requirement for suitably qualified personnel to fulfil the growing demand.

Content

"The ratio between the availability of ICT graduates versus industry demand significantly impacts the ICT sector and NZ as a whole.

The trend of both has caused considerable concern in recent years and (has resulted) in a significant international skills shortage" (NZCS Newline, June 2011).

Figure 1 illustrates the NZ IT enrolment trends from the 2002 peak to the present. Bachelor's degree EFTS enrolments are 43% lower, or 4210 fewer, in 2010 than in the 2002 peak enrolment year. Diploma EFTS enrolments are 32% lower, or 1680 fewer, for the same period.

Figure 2 illustrates the Seek ICT job adverts with the September 2007 peak preceding the economic recession, followed by a recovery in demand. In spite of the dip in the April, 2012, job adverts the overall trend indicates a steadily increasing requirement for skilled and experienced personnel.

These two charts are indicative of the NZ trend towards an increasing shortage of skilled personnel to fulfil industry demand.

Conclusion

An extract from the NZICT 2010 policy document, postulates an overall strategy for addressing the problem; "A focus on ICT-related education and skills are fundamental to New Zealand's endeavour to improve its Digital Economy".

Industry, professional organisations and tertiary institutions need to work with government to develop programmes that increase the flow into the ICT talent pipeline.

References

[Education Counts](#) (Accessed May 2011)

[Seek ICT Jobs](#) (Accessed May 2011)

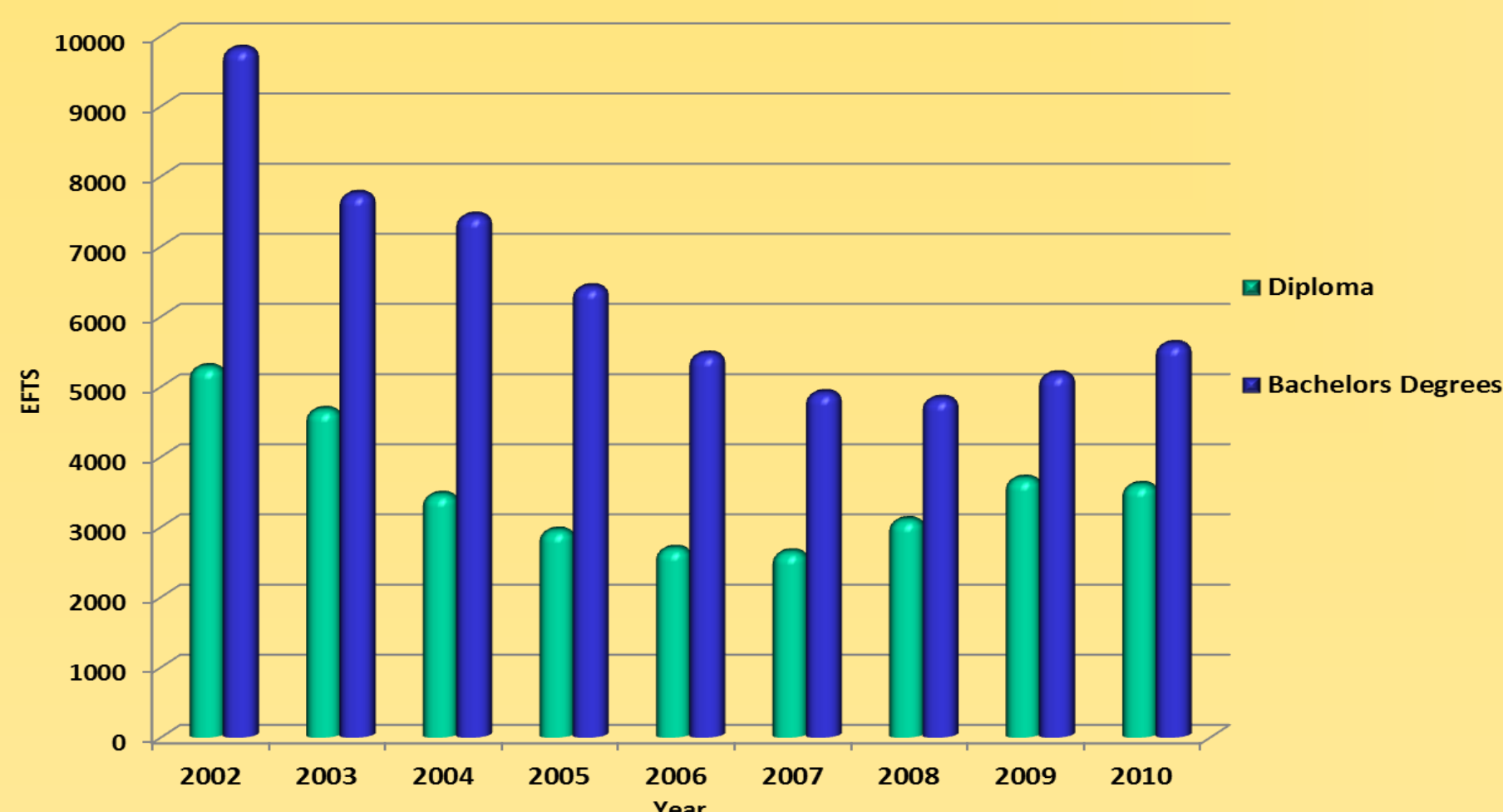
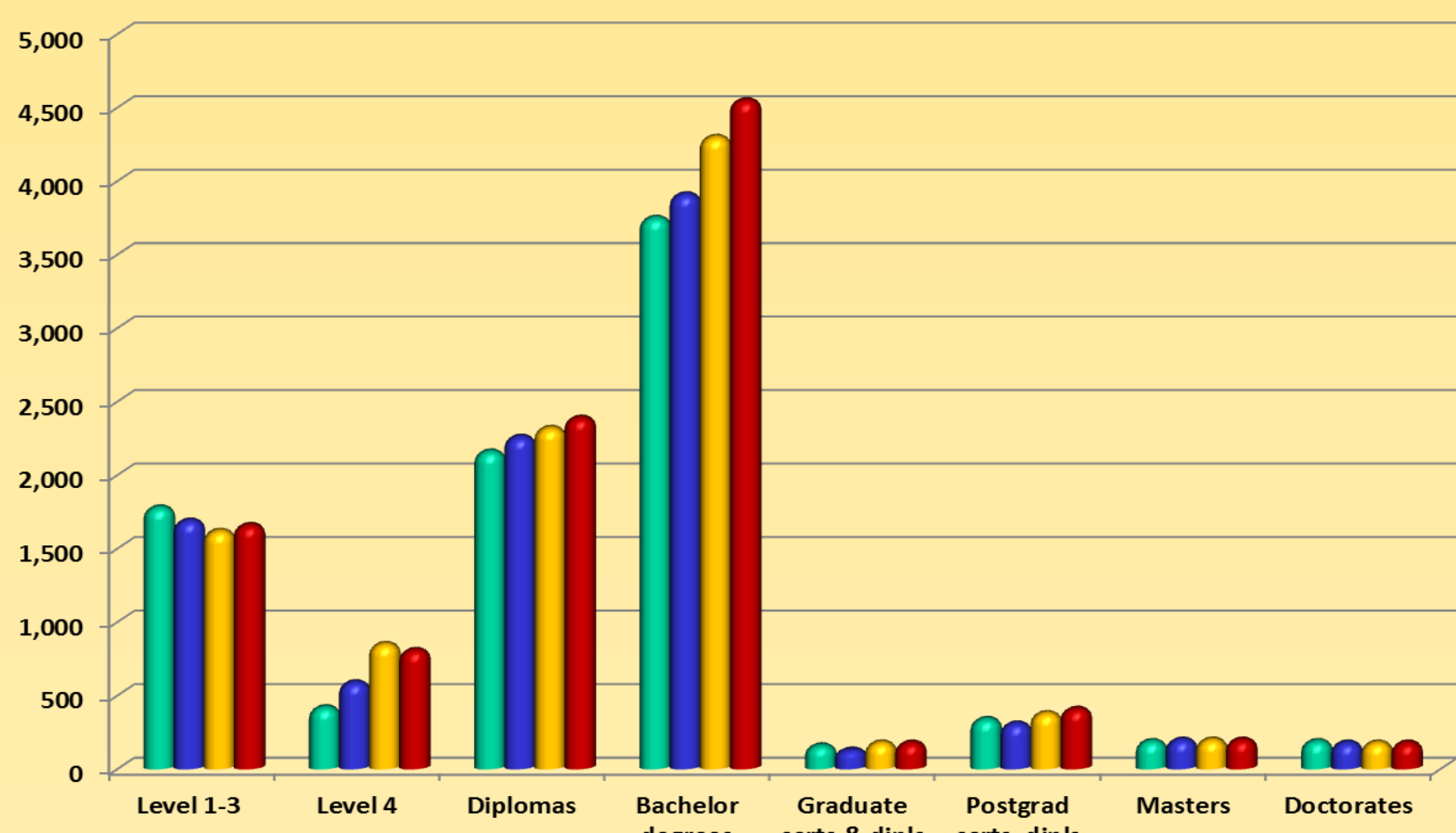
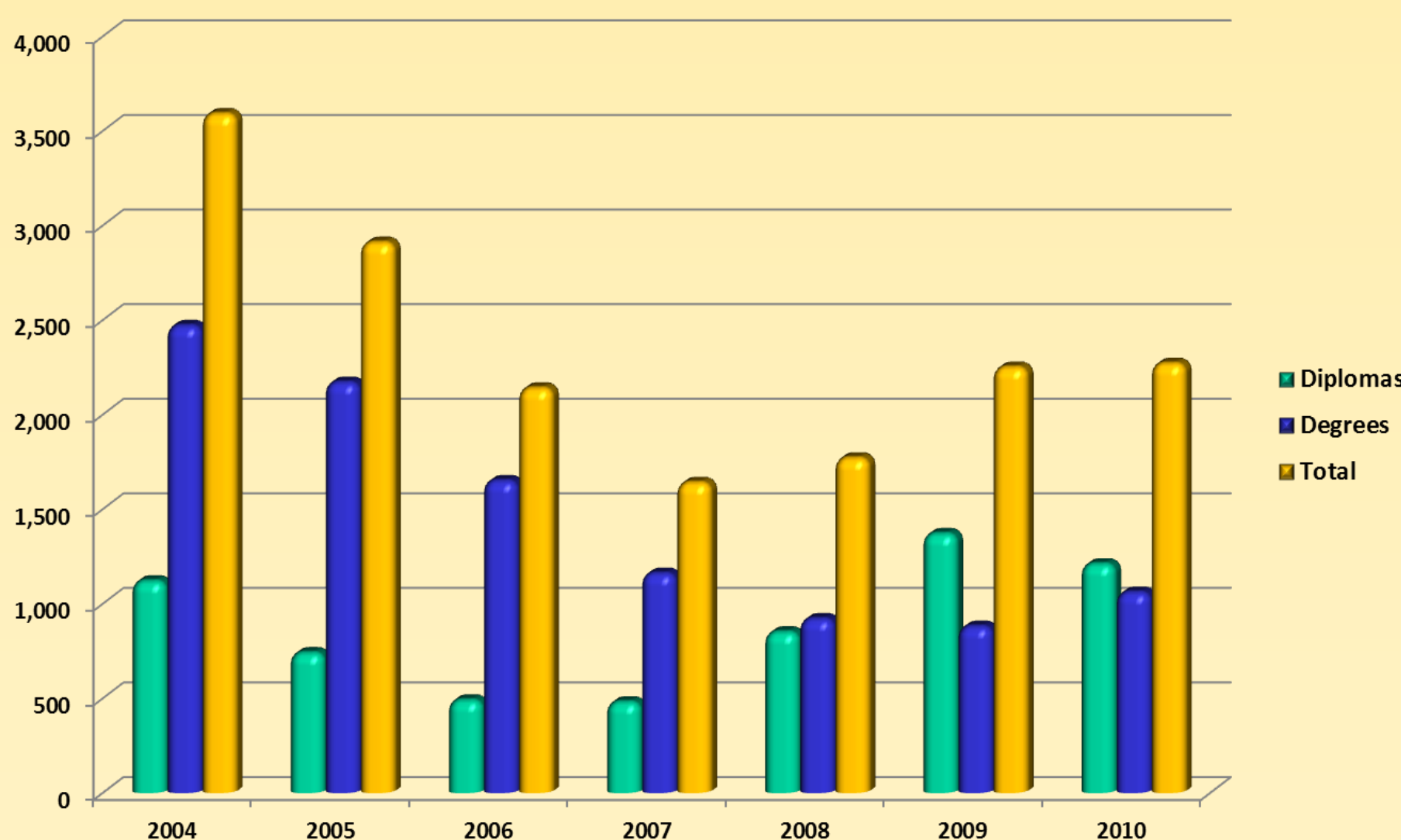


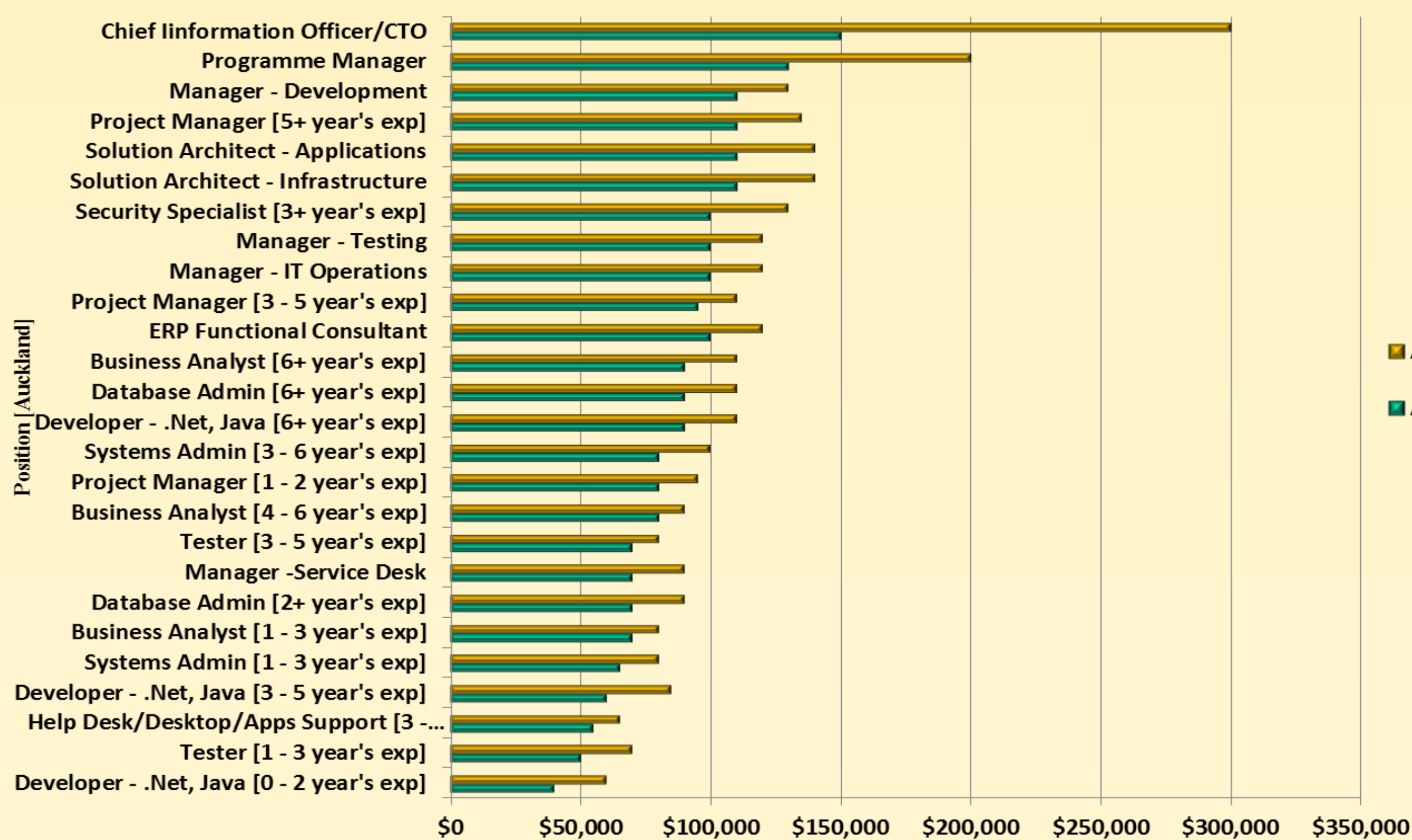
Fig. 1 NZ Tertiary Sector IT Enrolments (Domestic & International)



NZ Tertiary Sector IT Domestic EFTS Enrolment Trends 2007-2010



NZ Tertiary Sector IT International EFTS Enrolment Trends 2004-2010



Robert Walters NZ Salary Survey
Permanent Salary Auckland, February 2012

Hot Jobs for 2012 [Career Advice]

Top Five Jobs in the IT Industry

- Software developer
- Business analyst
- Project manager
- Business intelligence consultant
- Systems/network engineer

NZ Herald Career Article; 25th January 2012

Top Ten IT Jobs for 2012:

- Analytics and business intelligence
- Mobile technologies
- Cloud computing (SaaS, IaaS, PaaS)
- Collaboration technologies (workflow)
- Virtualization
- Legacy modernization
- IT management
- CRM
- ERP applications
- Security

Gartner Survey
Ranking Top 10 Technology Priorities 2012

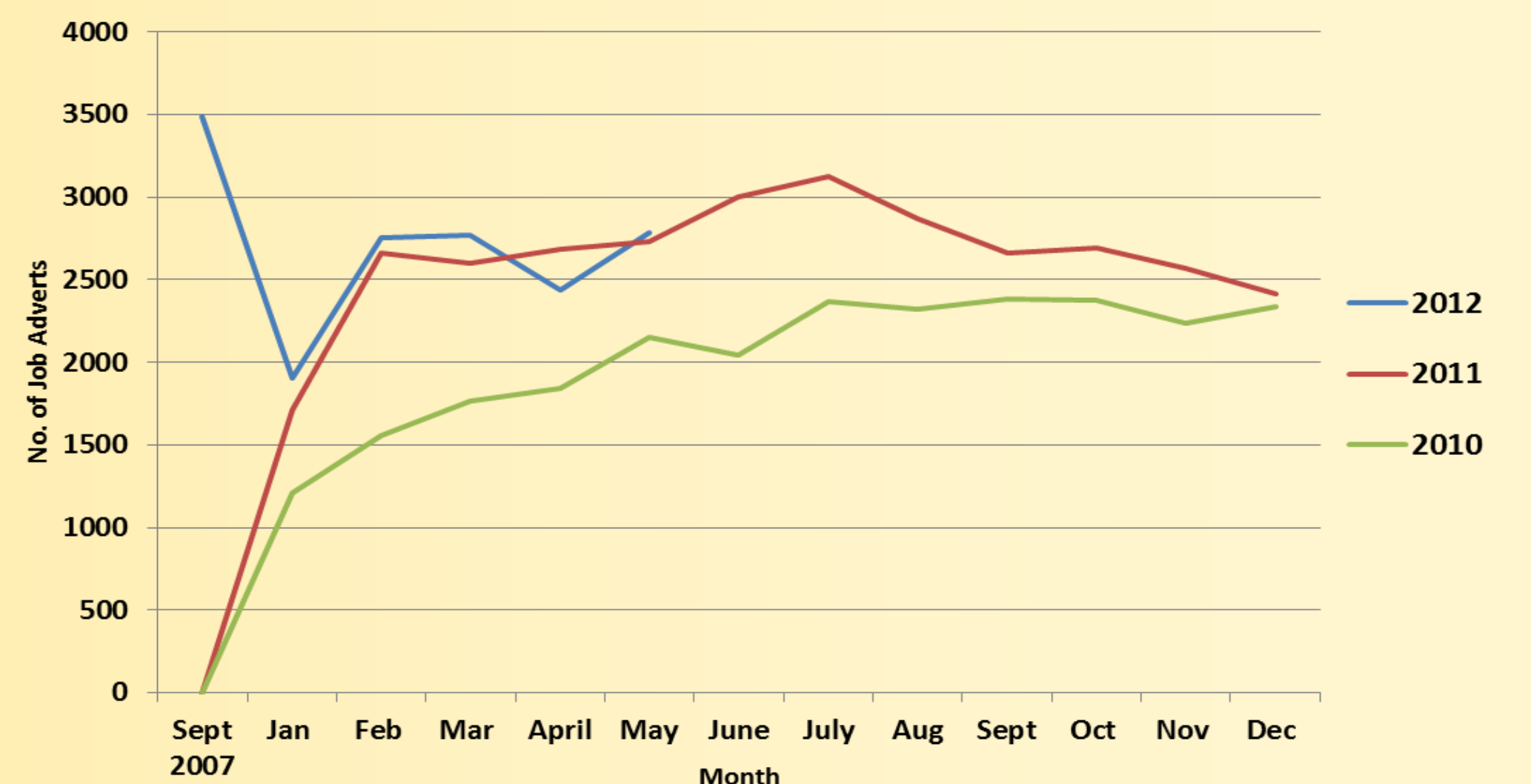
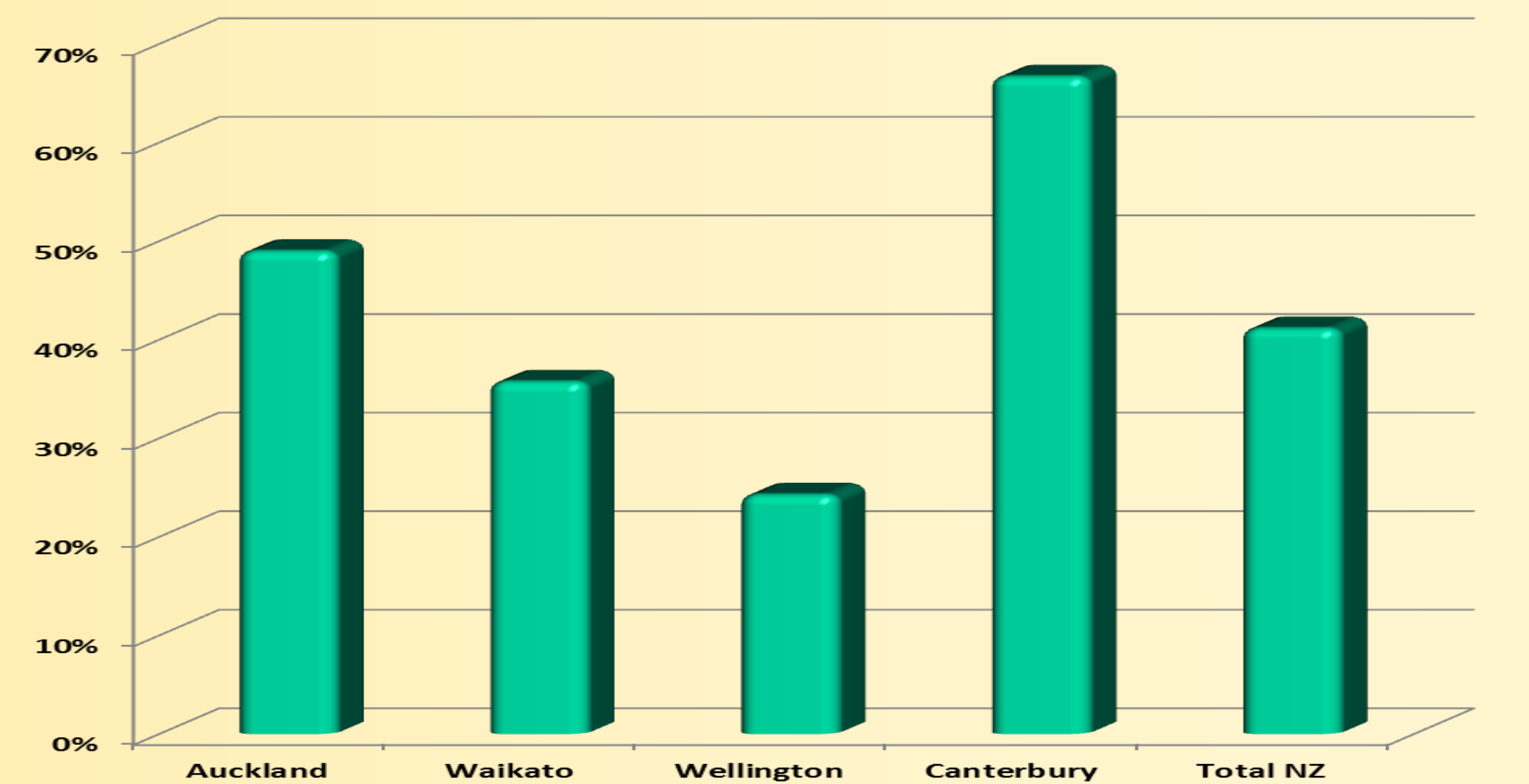
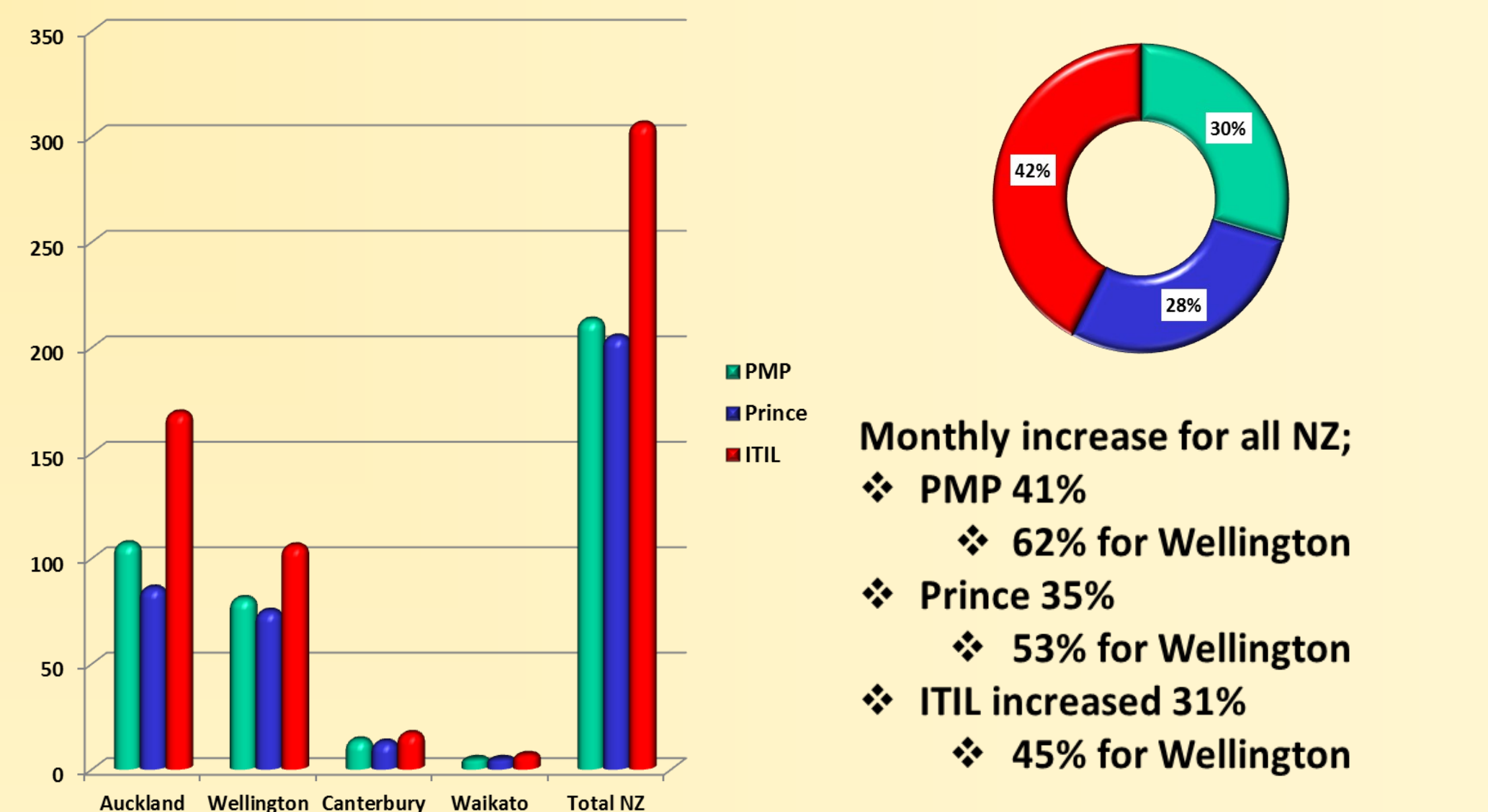


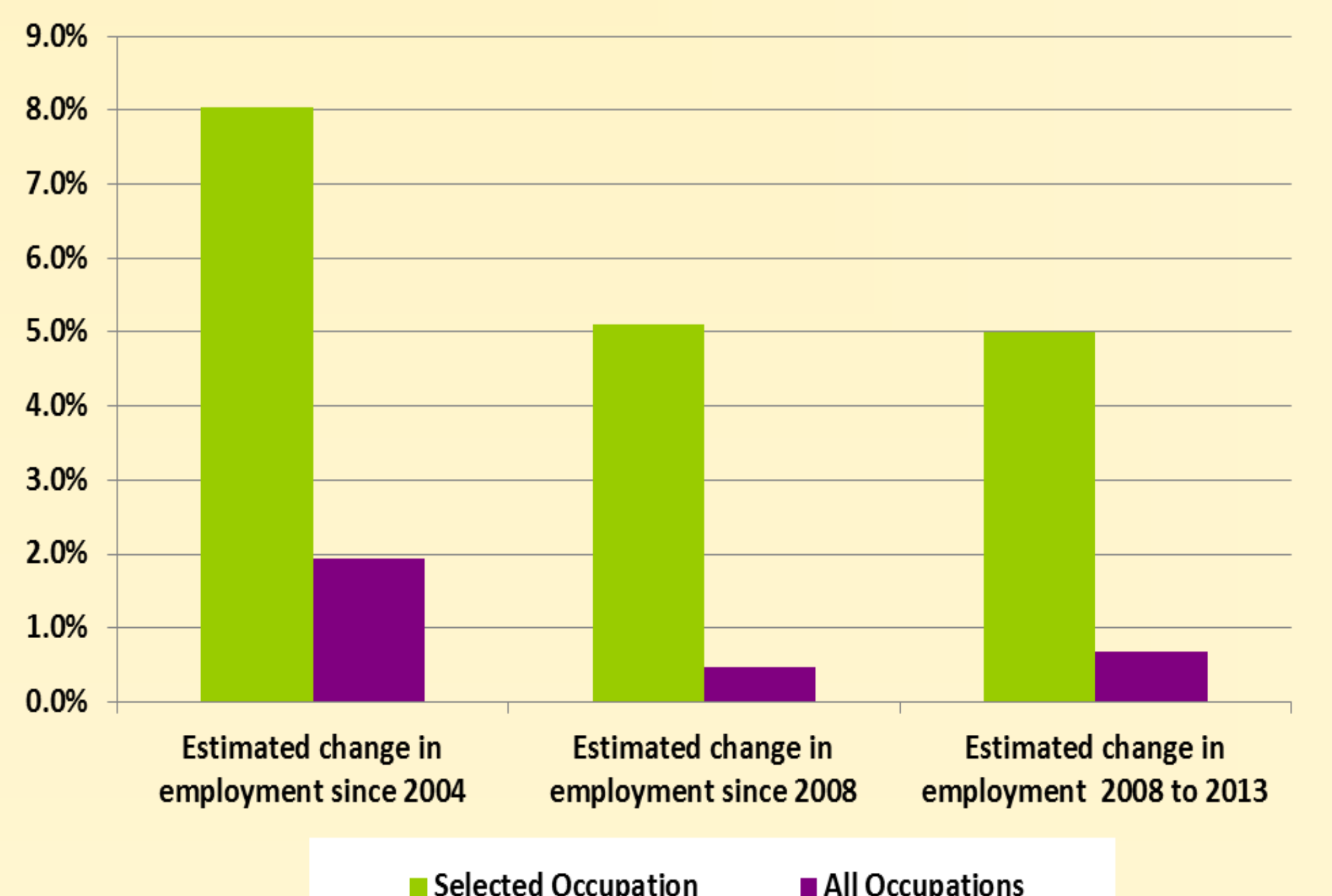
Figure 2 Seek ICT NZ Job Adverts 2007 Peak & 2010-Present



Growth in Seek ICT Job Adverts by Selected Regions - January to December 2011



Typical Monthly Figs. for Management Certification; Seek ICT Job Ads, May 2012



213 Computing Professionals—above avg. growth
NZ Dept. of Labour Skills Insight Tool Accessed May 2012