

WK3 - Resources, Handouts, and Overheads

OH/HO1 – Spotting Trends

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Top Ten Emerging Technologies that Could Change the World by MIT

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OH/HO1 – Spotting Trends

Innovations in Technology

Then In the '70s and early '80s, the transmission time to send a fax was three minutes per page, down from six minutes per page in the late '60s.

Now Technology has *revolutionized the way the world does business*. At the push of a button, documents can now be mailed electronically, reaching local and global destinations within seconds. And the fax machine is going the way of the dinosaur.

Social Trends

Then In the '60s, many workers held *stable, secure jobs* in one company, stayed there for 40 years, and looked forward to their gold watch upon retirement.

Now Long-term, 9-to-5 jobs are harder to find. More and more people earn a living by juggling part-time jobs with contract work. Others increase their income through small business pursuits. And almost everyone works for several companies over a lifetime.

Economic Trends

Then Until recently, trades were considered second-rate job reserved for guys with excellent hammer-and-nails skills and limited intellectual abilities.

Now....Negative stereotypes related to the trades are rapidly diminishing. Trades professionals are extremely skilled trained men and women with *high earning potential* and ample opportunity to reach management level.

Now ... Service-producing jobs between 1998 and 2008 are expected to increase by 19 million in the US alone.

<http://www.bls.gov/opub/ooq/2000/Summer/art04.pdf>

Demographics

Then In 1970, 7.7 percent of all doctors were women, and in 2010 it is expected that this will be more than 35 percent.

Now....Since 1950, jobs in health care have increased more than in any other category (US Department of Labour).

Communication

Then.... In 1960, radio and telephone were the ways information was transmitted for businesses, schools and government.

Now...The Ethernet celebrated its 30th birthday. Over the last 30 years, the Ethernet standard has become the network technology of choice for homes and enterprises—around 85 percent of the world's LANs (local area networks) today are Ethernet-based. Where are we going next?

(Source: Intel Web page)

OH2 – Researching Trends

http://www.backbonemag.com/php_site/home.php

Sample excerpts:

Canadian outsourcing set to soar

Outsourcing has always been a more significant trend in the U.S. than it has domestically, but that is set to change... the rise in the Canadian dollar, increased U.S. media awareness, offshore investment in Canada by Indian and global players and early success with trial programs all have profound impacts on offshore outsourcing. ... We found that if no action is taken at least 75,000 of Canada's current 550,000 IT jobs could migrate offshore by 2010; but with the right actions IT jobs could increase by 165,000."

March 11, 2004 - 12:09

Is your computer ringing?

http://www.backbonemag.com/php_site/home.php?m_column_id=php_news/wmview.php?ArtID=863

You just know that Voice over IP (VoIP) is gaining momentum. This is the technology that allows you to hold a phone conversation over the Internet, rather than using the traditional landline infrastructure.

After years of hearing about this once in a while from the tech guy in your office, it has suddenly jumped into the mainstream, with companies like Telus, Primus and Bell Sympatico all suggesting this is the next big thing in personal communication. ... But with new companies pushing into this space and established players ramping up their offerings, we may all be yakking it up online in the near future.

Other Articles for Trends Discussion and Research

August 17, 2004 - 13:17

Electronic payments = better economy

Electronic payments are responsible for one quarter of Canada's economic growth, according to a new study sponsored by Visa. The study also found that electronic payments are a boon to the overall economy.

Electronic payments contributed \$107 billion to the Canadian economy since 1983...

August 10, 2004 - 14:27

HP makes one billion pound recycling commitment

From now to 2007 HP is pledging to recycle one billion pounds of electronic products worldwide.

In Canada, this initiative will be enacted through programs such as Planet Partners, HP's service that provides an easy way to recycle any brand of computer equipment or HP printing supplies...

Tech companies cut waste - April 22, 2003 - 12:56

http://www.backbonemag.com/php_site/home.php?m_column_id=php_news/wmview.php?ArtID=695

Canadians against illegal music - May 10, 2004 - 22:49

http://www.backbonemag.com/php_site/home.php?m_column_id=php_news/wmview.php?ArtID=891

More of us are banking online – March 10, 2003

http://www.backbonemag.com/php_site/home.php?m_column_id=php_news/wmview.php?ArtID=680

Wireless Web access is springing out worldwide – March, 07- 2003

http://www.backbonemag.com/php_site/home.php?m_column_id=php_news/wmview.php?ArtID=679

OH3 – Trendspotting

Topic of the article: Internet telephony: is your computer ringing?

TREND: Technology Innovation

Anticipated Effects on the Workplace:

- **Restructuring of companies (Telus, Primus, etc.) that specialize in 'land line' communications or long-distance telephone service.**
- **Re-skilling will be necessary for phone installers and others involved in supporting the 'land line' technology.**
- **Entrepreneurial opportunities for Internet providers.**
- **Re-organization of job duties within larger companies that utilize specialized 'receptionists' to screen and direct phone calls.**
- **More?**

OH4 – Let's Review

Review:

- What are some of the trends you spotted in the 'trend spotting' activity that relate to the occupations you researched?
- In what ways might the occupation you researched change over time as a result of those trends?
- Why should you plan to interview people working in the career field you are interested in?

Next Steps:

- Compare the information you gather from 'live' sources with the printed sources you used today.
- Consider getting some work experience or volunteer experience in the career field.

OH5/H07 – Top Ten Innovations that Could Impact Your Life Soon!

DNA – Could we have our DNA encoded onto a key so we can then open our house, start our car? It is predicted that by 2012 this will be the method used to secure our belongings and identify ourselves.

Energy – Could we start paying for electricity like we do long-distance? Will there be energy stations where you shop for the best rate? In 2010 we will have lithium polymer batteries that are far more efficient allowing us to store more energy. Fuel cells will be commonplace, and the hydrogen freeway where you can readily fill up will be a reality. Could Methane Hydrate Crystals be the future?

Genetic-based Healthcare – Will healthcare be based on your genes? Scientists predict that we will have genetic diagnosis and prevention of health conditions and that cloned organs will be a reality.

Nanites No Longer a Trekkie vision? – Will nanites be the next amazing medical and scientific miracle? Nanites can deliver drugs to specific areas of tissue, they can destroy cancer cells, they can make repairs to damaged tissue. This is only the beginning.

Designer Foods? – Even now we see the impact of genetically engineered crops. The future holds crops that require less resources, that are more nutritious, and that stay fresh longer. We could have lawns that require less water and less fertilizer.

Electronic Currency – We have it to an extent now, but in the next 10 years it is expected to change the way we purchase items. No longer will there be cash, it will be an electronic market where wireless devices, chips and DNA-encoded currency is transferred through personal devices to pay for what we need.

Major Household Appliances, such as furnaces, air conditioners, washers, dryers and water heaters will be leased instead of purchased. People will buy the functionality without buying the item. Manufacturers or distributors will retain ownership and responsibility for eventual disposal and recycling.

Home-based Medical Monitoring, Diagnosis and Care – Healthy lifestyles and disease prevention have never been more important

than they are today. If you could find out the status of your health as easily as you find out your weight when you step on a scale, wouldn't you do it? Well, in the next 10 years you should be able to monitor your health and receive your diagnosis in your own home.

Home Waste Management – Imagine an in-home system that sorts, recycles and disposes of home waste—eliminating the need for hand sorting. We may even see the development of systems for at-home water treatment and recycling.

Highly Miniaturized Communication and Electronic Products – In 10 years we will have developed wristwatch-sized phones and highly specialized, hand-held wireless computers that will help us perform a variety of day-to-day activities from managing banking and investments to planning weekend entertainment. These could even become part of what we wear, integrated into our clothing.

Top Ten Emerging Technologies that Could Change the World by MIT

Brain-Wireless Sensor Networks - Small (AA battery sized) devices called motes combine a processor, memory and sensors to monitor their local environment, and have just enough radio power to transmit snippets of data to nearby motes to pass along to other motes, thereby creating a self-organizing network. Applications include traffic, buildings and ecosystems.

Injectable Tissue Engineering - Joints, such as hips or knees, are injected with mixtures of polymers, cells and growth stimulants that solidify and form healthy bone and cartilage. Injectable systems are less invasive and less costly than surgical replacements.

Nano Solar Cells - Tiny nanorod semiconducting crystals are added to electrically conductive polymers to create very thin sheets (200 nanometers thick), which are then sandwiched between electrodes to carry away electricity generated when struck by sunlight.

Mechatronics - Mechanical systems are combined with electronic components and software which can identify and correct flaws in real time to ensure the overall system functions as intended. Though already found in aircraft and photocopiers, the falling prices of both microprocessors and sensors make them ready for prime time in the automotive world.

Grid Computing - The Internet links computers. Hypertext links documents. Grid protocols link everything else— databases, simulation tools, and underutilized computing power. Computer grids function analogously to the electric grid. Widely dispersed online resources become available to focus on the problem at hand.

Molecular Imaging - Multiple imaging techniques—magnetic, nuclear, and optical—are combined with computer analysis to observe molecular interactions underlying biological processes. Molecular signals may indicate cancer growth, for example, long before the cancers are detectable by conventional means.

Nanoimprint Lithography - Like a printing press, a hard mold is stamped into a material momentarily softened by a laser flash, creating reproducible features smaller than 10 nanometers across in less than a microsecond. The commercial challenge is to etch nanopatterns into silicon for microchips.

Software Assurance - Software bugs and computer crashes are a pervasive fact of life. New tools are being developed which model and test a software design before the programmers write the code, in much the same way a bridge design is tested before the bridge is built. Another analogy is the quality movement in industry during the 1970s and 1980s, which replaced sampling and testing all products and rejecting those not meeting specifications with building quality into the product at every step of design and manufacture.

Glycomics - Glycomics is the effort to understand and harness sugars that are naturally made by the human body in order to improve health by bolstering the immune system or by arresting disease processes. Sounds easy, but there is, as of yet, no code that determines the structure of the sugars.

Quantum Cryptography - Commonly used encryption of messages is based on fixed "public keys" whose codes have not been broken yet, but they will be someday. Quantum encryption creates a unique "key" for each message, and any attempt to intercept the message irrevocably alters the signal, making the message unreadable to anyone.

HO2 – Websites Global Trends

<http://www.goinglobal.com/CountryProfile.asp>

Includes a brief summary of employment trends in 23 countries.

<http://www.backbonemag.com>

Articles published in Backbone Magazine.

<http://www.ilo.org>

World Employment Report 2001 - Projections of impact of HIV/AIDS on the global labour force.

<http://youthink.worldbank.org/issues/globalization>

Explores the issues around globalization.

<http://www.yesweb.org>

Youth Employment Summit (YES) is a US-based campaign to combat the issue of youth unemployment worldwide.

http://kantei.go.jp/foreign/it_e.html

e-Japan 2002 Program report, on the goal 'to make Japan the world's most advanced IT nation within five years.'

http://planningcommission.nic.in/plans/planrel/pl_vsn2020.pdf

Report prepared by the Planning Commission, Government of India.

<http://www.lsc.gov.uk/National/Documents/SubjectListing/Research/SkillsinEngland/Skills-in-England.htm>

Skills in England 2002 report.

http://www.eu-employment-observatory.net/en/publications/sysdem/report2003_4.asp

Several European Union countries' labour prospects.

HO3 – Worksheet on Trends

Article Title _____

Trend that is the topic of this article

Main points of article

1.
2.
3.
4.

What effects on the workplace or work might this trend initiate or sustain?

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HO4 – Trend Spotting

Use the extra space to take notes and add as appropriate

Trend	Impact
Technology Innovation [robotics, communication technology, electronics, biotechnology]	<ul style="list-style-type: none">○ Strong employment growth in high-tech sectors like software and hardware engineering, computer programming, electronics and biotechnology.○ Change in the skill sets required of workers related to new technologies.○ Changes in supply/demand for workers as technology replaces people, such as in automated manufacturing. The lower skilled work is disappearing, being replaced by highly skilled technical work.○ New ways of working because of the increasing sophistication of telecommunications and affordability of the technology.
Economic Trends [increase in number of small businesses, downsizing and restructuring of large businesses, 'flattening' of organizational structures, historically low interest rates, increasing use of credit]	<ul style="list-style-type: none">○ 'Entrepreneurial' attitudes and skills valued by employers.○ Increased entrepreneurial opportunities.○ Growth of jobs in the finance sector.
Education Trends [a high school education is considered a bare	<ul style="list-style-type: none">○ Educational requirements are increasing for almost all types of

<p>minimum for 'employability', most occupations require some form of post-secondary]</p>	<p>work.</p>
<p><i>Globalization</i> [free trade agreements, European common market and currency, speed of global transportation and communication]</p>	<ul style="list-style-type: none">○ Demand for multilingual workers.○ Increasing mobility of workers related to the increased demand for workers who assist with the development of infrastructure and education in developing countries.○ The 'brain drain' in some developed countries, due to a global shortage of highly skilled workers.
<p><i>Social Trends</i> [women participating in the workforce, increased concern for security, health and safety]</p>	<ul style="list-style-type: none">○ New work arrangements—part-time, contract, etc. Flextime, onsite daycare, onsite gyms are growing in popularity as

	<p>businesses accommodate working parents.</p> <ul style="list-style-type: none">○ Increased emphasis on health and safety in the workplace.○ Recent increase in demand for security workers and new security technology.
<p><i>Demographic Trends</i> [lower birth rates and aging population in developed countries]</p>	<ul style="list-style-type: none">○ An aging demographic in developed countries will fuel growth in sectors related to health and leisure activities.○ Pressures to increase the skilled workforce through immigration.

HO5 – Web sites Occupational Research

<http://jobfutures.ca/en/>

Information on the jobs of tomorrow, the most promising jobs in Canada over the next five years, projected job openings, growing industries in Canada.

www.alis.gov.ab.ca

This site has sample job descriptions, videos as well as labour market information.

<http://www.workfutures.bc.ca>

Occupation descriptions for over 200 occupations in BC.

<http://startnow.workfutures.bc.ca/>

Occupational profiles for entry-level jobs.

http://www.achievebc.ca/cpt/career_planner.html

Learning and training information and job profiles.

http://lmi-imt.hrdc-drhc.gc.ca/standard.asp?ppid=43&lcode=E&prov=&qaid=&occ=&search_key=1&pre_sel_criteria=0

Search for wage and salary information by occupational title, list of occupations, NOC code, or job type.

<http://www.jobbank.gc.ca/>

Information on training programs, job searches, labour market trends, career planning.

<http://www23.hrdc-drhc.gc.ca/2001/e/groups/index.shtml>

Occupational profiles classified by Canada's National Occupational Classification (NOC) code.

<http://workopolis.com>

Search for jobs, read career-related articles, ask questions of career advisors.

<http://www.studentsonice.com>

Information about unique learning expeditions.

<http://www.acinet.org/acinet/oview1.asp?soccode=&stfips=&from=National&Level=Overall&x=38&y=9>

Comprehensive list of the top 551 occupations in the US projected to grow the fastest during the 2002-2012 period.

<http://www.acinet.org/acinet/oview5.asp?soccode=&stfips=&from=National&Level=Overall&x=38&y=9>

List of the highest-paying 711 occupations in the US in 2002, with links by state to occupational information.

<http://usajobs.opm.gov/>

Information about federal jobs in the US and employment information.

<http://www.careers-in-health.com>

Overview of health career opportunities in the US.

<http://www.jobprofiles.org>

Personal profiles of U.S. or Canadian professionals.

<http://overseasjobs.com>

Career resources and employment opportunities

<http://finance.monsterindia.com/>

Overview of the various sectors and work opportunities in India.

<http://workabroad.monster.com>

Articles about working globally.

EUROPE

<http://www.direct.gov.uk/>

United Kingdom – information on government services and a section on employment.

http://www.prospects.ac.uk/cms/ShowPage/Home_page/Explore_working_and_studying_abroad/Numbers_working_and_studying_in_Europe/An_integrated_Europe/Trends_in_European_employment/pleaLXiX

European career trends.

<http://www.efbweb.org/downloads/Trends%20in%20the%20European%20biotechnology%20education%20and%20labour%20market.doc>

Paper on trends in biotechnology.

ASIA

<http://www.korea.net>

Comprehensive information about Korea's economy, culture, government, etc.

<http://www.jobs.gov.hk/eng/default.asp>

Hong Kong's Employment Service Web site.

<http://jobasia.com/home.shtm>

Search jobs in IT, accounting, investment analysis, marketing, sales, engineering and graphic design.

<http://www.myjob.com.hk>

Hong Kong – search for job vacancies and career information.

<http://www.workinjapan.com>

Website for English-speaking professionals looking to live and work in Japan.

INDIA

<http://indiaimage.nic.in>

Information about India and its economy, news, etc.

OTHER

<http://www.africaguide.com/work.htm>

Search for work in Africa or information about Africa in general.

<http://spw.org>

Volunteer opportunities in India, Nepal, South Africa, Tanzania, Uganda, Zambia, and Zimbabwe in the fields of health education and community resource programs.

http://destineducation.ca/intro_e.htm

Information for those interested in studying abroad

<http://www.workplace.gov.au/>

Information on employment in Australia.

<http://www.jobnet.com.au/>

Australian IT job-search Web site.

HO6 – Occupational Forecast Sheet

Occupational Forecast Worksheet

Occupation _____

Sources of information (Web sites) _____

Typical duties and tasks _____

Skills required _____

Work environment _____

Educational requirements _____

Future demand _____

What changes can you anticipate as a result of the trends you have discussed today?

To the typical duties and tasks: _____

To the skills required: _____

To the work environment: _____

To the educational requirements: _____

To the future demand: _____

HO8 – International Career Article

Preparing for An International Career Developing Needed Global Skills

By Debra Peters-Behrens

As an international careers adviser, I receive questions daily from people of varied backgrounds who hope to try their luck in the global marketplace. The short answer is that there is, literally, a world of opportunities for job seekers who are serious about pursuing an international career. Whether you are an entry-level college graduate or mid-career professional, it is possible to find your niche by thoroughly researching the job market, identifying the relevant skills you already have, and acquiring the skills you may lack.

Many job seekers mistakenly believe that they can't begin an international career until their feet are on foreign soil. They overlook their own backyard for resources and training opportunities. Consider the skills most sought after by global employers and the strategies for acquiring them before you leave home.

The Most Sought-After Skills

What do international employers really look for in employees and what skills will be needed by professionals to perform successfully in the global marketplace?

A recent study commissioned by the College Placement Council Foundation surveyed 32 international employers and colleges to determine what international employers seek in prospective employees. They identified the following areas of required knowledge and skills:

Domain knowledge, or knowledge in one's academic discipline. Colleges in the U.S. are presently preparing their graduates well in domain knowledge, although employers expressed concern that

increasingly greater demands and higher standards may soon result in inadequately prepared graduates.

The three most important skills were cognitive skills, social skills, and "personal traits." Problem-solving ability, decision making, and knowing how to learn are highly prized generic skills. Social skills were described as the ability to work effectively in group settings, particularly with diverse populations. Personal traits mentioned frequently included flexibility, adaptability, and the capacity to be innovative. Employers often mentioned that colleges do not adequately address this type of skill development.

Cross-cultural competence is a critical human resource. Students must make a concerted effort to acquire the knowledge, skills, and traits gained through cross-cultural interaction because we are more geographically and linguistically insulated than most other countries.

On-the-job training and prior work experience were considered as important as academic knowledge. Employers seek applicants who have been successful in applying their domain knowledge or academic studies and generic skills in the workplace. They say that colleges do not place sufficient emphasis on work experience.

Acquiring the Skills

Get Experience. An internship or a stint as a volunteer can be invaluable to recent graduates or career changers. Locate organizations at the local level which have similar goals to those of larger international organizations. Service organizations address issues of health, housing, economic development, and employment—all of which are local as well as global concerns.

For example, one client wanted to find a position in development work in the Third World. I suggested that she research local human service organizations to find an internship that would provide her with opportunities to work with on-going projects. She found an internship as an interagency liaison with a relief organization that distributed

medicine, food, and supplies to countries affected by war or natural disasters.

Many job seekers plan to teach English as a second language with little or no experience beforehand. Even a brief stint as a volunteer language assistant can provide insight into the challenges and rewards of the work. Testing a field in familiar settings can make for a smoother transition abroad.

Build Your Resume. Job seekers often do not have the time or the money to pursue a degree program, but in some instances a few courses may sufficiently augment the experience and education you already have. Consult a career counselor to help you assess your skills and identify approaches for strengthening your background. A counselor can also help you determine an optimum strategy for meeting your goals. Investigate extension and continuing education programs offered by local colleges and universities for courses in computer science, graphic design, and foreign languages.

Research the Job Market. Gather information by researching a variety of sources: trade publications, journals, professional associations, and electronic bulletin boards. The public library is a treasure trove of information. Many university libraries will issue a community user card for a nominal annual fee.

After you have a grasp of key issues and trends you may want to get the perspective of people who are active in the field. Use your alumni directory and professional associations as resources for networking and information interviewing. Do not set up an information interview and then ask your informant for a job. People generally resent the imposition. Instead, use the time to ask questions that are not covered in print material, including "If you were me, what would you do next?," "If you had to do it all over again, is there anything you would do differently?," and "What strategies did you use that were most successful?"

With a focused and well-organized approach, you can be on the path to developing skills for a global career.

Go Where the Action Is. Many U.S. cities are becoming global in population and perspective as people with diverse linguistic, national, and cultural backgrounds converge to live and work. Living in these locales can help you acquire cross-cultural competence and find work in fields such as business, cultural exchange, and health and human services with a focus on certain regions of the world. All major cities have world trade centers which support international commerce, as do some mid-sized and smaller cities.

If you're interested in the Asian Pacific Rim, for example, a job with a multinational organization in Seattle, Portland, or San Francisco may be a good starting point. Miami, Houston, and San Diego hold great potential for international trade between the U.S. and Latin America. New York and Los Angeles are centers of international business, diplomacy, and cultural affairs. Washington, DC provides a strong base for finding international employment, particularly in government and nonprofit organizations.

Available on monster.com

HO9 - Internship Research Resources

Canadian Based

www.berlitz.com: Homepage for language-services specialist, Berlitz International Inc., which includes a "Study Abroad" section that has information on studying English and French in Canada and features a link to Berlitz's Canadian operations.

www.cfcsc.dnd.ca/links/gov/einca.html: Web links to embassies, high commissions and consulates in Canada.

www.cnous.fr Trilingual Web site for Centre National des Oeuvres Universitaires et Scolaires of the Ministry of France to provide information to international students going to study in France.

www.daad.org: Bonn-based Deutscher Akademischer Austauschdienst (German Academic Exchange Service) site has information on research and study opportunities in Germany, Canada and the United States.

www.dlcoursefinder.com: International distance learning directory that provides information on and contacts for institutions offering correspondence and online courses.

www.distancestudies.com: A site that lists Canadian schools that offer distance-learning courses.

www.idp.edu.au IDP Education Australia site contains links for anyone interested in studying in the land down under.

www.iie.org: Homepage for the Institute of International Education, which features information on various educational exchange and awards programs, including the Fulbright fellowships for students and scholars.

www.istudy.com: Site run by International Study and Educational Services, a Japanese-based private foundation that promotes international understanding through education, which includes a section on English-as-a-Second-Language programs offered in Canada.

www.nrdsa.com: The site for the U.S.-based National Registration Center for

Study Abroad features links to Canadian schools that run English- and French-language training programs.

www.norden.org: Nordic Council of Ministers site features links to Nordic educational institutions.

rotary5040.org/students/index.html: Web site for Rotary International Youth Exchange program.

www.studyabroad.com/content/portals/Canada_port.html: Section of an international directory that lists educational opportunities in Canada for high school and post-secondary students.

www.cbie.ca: Bilingual site of the Canadian Bureau for International Education, which is Canada's national organization dedicated exclusively to international education. The site provides information for Canadian and international students as well as awards programs.

www.cciorg.ca: Bilingual site of Canadian Crossroads International, an international, Canadian-government-supported non-profit organization that

runs programs for volunteers from developing countries to live and work in Canada and other developed countries.

www.cwy-jcm.org: Bilingual site of Canada World Youth, a national, non-governmental organization that provides young people from Canada and around the world with the opportunity to travel, live and work in different communities, to learn about local and international development, and to gain important job skills for the future.

rotary5040.org/students/index.html: Web site for Rotary International Youth Exchange program.

www.cade-aced.ca: The Ottawa-based Canadian Association of Distance Education's bilingual Web site has links to regional, national and international organizations that run distance education courses.

www.capls.com: Contact information for schools that teach English or French as a second language across Canada and are members of the Delta, B.C.-based Canadian Association of Private Language Schools (CAPLS).

courses.telecampus.edu/subjects/index.cfm: A Canadian site with a searchable database of online courses available and which can be located either by subject or institution.

www.cvu-uvc.ca: The bilingual site of the Canadian Virtual University/Université Virtuelle Canadienne (a partnership of bricks-and-mortar universities across Canada), which lists undergraduate and graduate courses and programs available by school, subject or level.

www.cslp.com: Bilingual site of the Council of Second Language Programs in Canada, which features a list of English and French-language programs offered at over 60 universities and colleges, with Web site links.

www.pelsa.org: English-language site of the Private English Language Schools Association lists the private ESL language training institutes in Canada.

GENERAL SEARCH ENGINES:
Searchable internship databases with many career categories:

www.internships-usa.com (Contact Career Services for the Denison password)

www.vault.com (Contact Career Services for the Denison password)

www.internshipprograms.com

www.Internweb.com

www.Monstertrak.com

www.rsinternships.com/

www.collegegrad.com/internships

www.nassembly.org/

www.idealists.org

<http://www.jobweb.com/experiential/jintern.htm>

www.internjobs.com

<http://www.studentjobs.gov/>

www.getthatqiq.com

ARTS, CULTURE and ENTERTAINMENT:

Smithsonian Institution Internships:

<http://www.si.edu>

The Entertainment Employment Journal links to internships in film, TV and radio:

www.entertainmentjobs.com

Museum Jobs/Internships online:

www.aviso.aam-us.org

and at: www.algonquincollge.com

Arts Interns (must be a New York City resident): <http://artsintern.org/>

Artist Resource:

<http://www.artistresource.org/intern.htm>

National Gallery of Art:
[http://www.nga.gov/education/internsu
mm.htm](http://www.nga.gov/education/internsu
mm.htm)

Museum of Modern Art (MOMA):
[http://www.nga.gov/education/internsu
mm.htm](http://www.nga.gov/education/internsu
mm.htm)

Art Institute of Chicago:
[http://www.artic.edu/aic/jobs/interninfo.
html](http://www.artic.edu/aic/jobs/interninfo.
html)

Metropolitan Museums of Art (NYC):
[http://www.metmuseum.org/education/
er_internship.asp](http://www.metmuseum.org/education/
er_internship.asp)

National Endowment for the Arts:
[http://www.nea.gov/about/Jobs/Interns
hips.html](http://www.nea.gov/about/Jobs/Interns
hips.html)

MANDY (international film and TV
production resources):
www.mandy.com

San Francisco Museum of Modern Art:
[http://www.sfmoma.org/info/opps_inter
nships.html](http://www.sfmoma.org/info/opps_inter
nships.html)

Fine Arts Museum of San Francisco:
[http://www.thinker.org/fam/about/getinv
olved/index.asp](http://www.thinker.org/fam/about/getinv
olved/index.asp)

BUSINESS:

Disney's College Program:
[http://www.wdwcollegeprogram.com/ht
ml_home/index-ns.html](http://www.wdwcollegeprogram.com/ht
ml_home/index-ns.html)

Wall Street Journal Listings:
www.collegejournal.com

General Business Career Advice:
www.careers-in-business.com

Vault Career Guide: www.vault.com
(contact Career Services for password)
Internships-USA: [www.internships-
usa.com](http://www.internships-
usa.com) (Contact Career Services for
password)

ENVIRONMENTAL, CONSERVATION and OUTDOORS:

Student Conservation Association:
www.thesca.org

Internships-USA: [www.internships-
usa.com](http://www.internships-
usa.com) (Contact Career Services for
password)

A list of environmental internship links:
[http://www.ag.ohiostate.edu/~envjobs/
env7.htm](http://www.ag.ohiostate.edu/~envjobs/
env7.htm)

The Environmental Careers
Organization: www.eco.org

Environmental Career Opportunities:
<http://ecojobs.com>

Outdoor and Adventure Program Job
Listings
[http://www.wilderdom.com/joblistings.ht
ml/](http://www.wilderdom.com/joblistings.ht
ml/)

EPA Internships:
www.epa.gov/students/

ORION:
[http://www.oriononline.org/pages/ogn/i
cs.cfm](http://www.oriononline.org/pages/ogn/i
cs.cfm)

UBIQUITY: [http://www.ag.ohio-
state.edu/~envjobs/env7.htm](http://www.ag.ohio-
state.edu/~envjobs/env7.htm)

Appropriate Technology:
<http://www.attrainternships.ncat.org/>

Earth Island Institute:
[http://www.earthisland.org/getinvolved/i
work.html](http://www.earthisland.org/getinvolved/i
work.html)

COMMUNICATION:

Internships-USA: [www.internships-
usa.com](http://www.internships-
usa.com) (Contact Career Services for
password)

The Mighty Internship Review:
[http://www2.daily.umn.edu/~mckinney/i
ndexwof.html](http://www2.daily.umn.edu/~mckinney/i
ndexwof.html)

TV Jobs:
<http://www.tvjobs.com/intern.htm>

UC Berkeley Journalism:
[http://www.journalism.berkeley.edu/job
s/](http://www.journalism.berkeley.edu/job
s/)

Journalism Jobs:
www.journalismjobs.com

Salon (magazines):
[http://archive.salon.com/it/intern/1998/1
0/23intern.htm](http://archive.salon.com/it/intern/1998/1
0/23intern.htm)

Magazine Internships:
[http://www.magazine.org/careers/Intern
ships/](http://www.magazine.org/careers/Intern
ships/)

Center for Public Integrity (journalism):
[http://www.publicintegrity.org/about/op
portunities.aspx#internship](http://www.publicintegrity.org/about/op
portunities.aspx#internship)

EDUCATION and TEACHING:

The National Society for Experiential
Education (NSEE) is a membership
association and national

resource center that promotes experienced-based approaches to teaching and learning:

<http://www.nsee.org>

Breakthrough Collaborative offers teaching opportunities across the country:

www.breakthroughcollaborative.org

Center for Talented Youth offers teaching opportunities in more than 20 cities:

<http://www.cty.jhu.edu>

INTERNATIONAL:

Many Denison students wish to gain international work experience.

Generally speaking, the easiest way to do so is to participate in an established international program's work/study opportunities.

Internships-USA: www.internships-usa.com (Contact Career Services for password)

Study Abroad Programs:

<http://www.studyabroad.com/exp.html>

Intern Abroad: www.internabroad.com

AIIESEC: www.aiieces.org

Campus Access:

http://www.campusaccess.com/campus_web/intern/i3int_bus.htm

American Institute for foreign Study (AIFS): <http://www.aifs.com>

Int'l Assn. for the Exch. of Students for Technical Experience:

<http://www.aipt.org>

Institute of Int'l Education:

<http://www.iie.org/>

CDS Int'l Internships:

<http://www.cdsintl.org>

Institute International Education of

Students: www.iesabroad.org

Council on International Educational

Exchange: www.ciee.org

Russian and East European Institute:

<http://www.indiana.edu/~reeiweb/index.html>

BUNAC, working adventures

worldwide: www.bunac.org

Au Pair in Europe Child care jobs in Europe:

<http://www.princeent.com/aupair>

MEDICAL and HEALTH:

For corporate wellness and fitness internships:

<http://www.nau.edu/hp/student/index.html>

National Institute of Health (NIH)

summer internship program in

Biomedical Research:

<http://www.training.nih.gov> or

<http://www.jobs.nih.gov/summer.htm>

Various medical internships:

www.medicalinternships.com

Association of American Medical

Colleges (for multicultural students):

<http://www.aamc.org/students/considering/smep/start.htm>

Rochester Institute of Technology

(large list of nationwide opportunities):

<http://www.rit.edu/~gtfsbi/Symp/premed.htm>

National Cancer Institute:

<http://generalemployment.nci.nih.gov/welcome.cfm>

MULTICULTURAL:

American Association of Advertising Agencies Diversity Program:

www.aaaa.org

INROADS (for First Year Students and Sophomores) - The mission of INROADS is to develop

and place talented, minority youth in business and industry and prepare

them for corporate and community leadership:

http://www.inroadsinc.org/html/about_inroads.htm

Minority Internships in Public Health:

<http://www.hsph.harvard.edu/internships/>

American Society for Microbiology:

<http://www.asm.org/Education/index.asp?bid=4322>

Summer Opportunities for

Undergraduate Minority Students:

<http://www.doorsofopportunity.org/>

Congressional Hispanic Caucus
Institute:
<http://www.chci.org/chciyouth/internships/internships.htm>
Sponsors for Educational Opportunity:
<http://www.seo-usa.org/>
Association of American Medical
Colleges:
<http://www.aamc.org/students/considering/smep/start.htm>
United Negro College Fund:
www.uncf.org
Morris Udall Congressional Internships
for Native Americans:
http://www.udall.gov/p_internships.asp
Getty Museum (Los Angeles):
http://www.getty.edu/grants/education/multicultural_getty.html
Smithsonian Museum:
<http://www.si.edu/ofg/intern.htm>

**POLITICAL SCIENCE,
GOVERNMENT and PUBLIC
SERVICE:**

Internships-USA: www.internships-usa.com (Contact Career Services for password)
Live, Learn, and Intern in Washington, D.C.: <http://www.dcinternships.org/>
U.S. State Department Internships:
<http://www.state.gov/employment>
The Washington Center:
<http://www.twc.edu>

Whitehouse Internship Program:
<http://www.whitehouse.gov/government/wh-intern.html>
Institute for Experiential Learning:
<http://www.ielnet.org/>
FBI Honors Internship:
<http://www.fbi.gov/employment/honors.htm>
Defense Intelligence Agency:
<http://www.dia.mil/Careers/Programs/index.html>
Everett Interns will use their knowledge and skills in 56 organizations (in NYC or DC) dedicated to improving the world:
www.everettinternships.org
Central Intelligence Agency:
<http://www.odci.gov/employment/student.html>
The Heritage Foundation offers internships in foreign or domestic policy, media and publishing:
www.heritage.org/internships
The Carter Center:
http://www.cartercenter.org/aboutus/education_doc.htm
Federal Government Internships (various fields):
<http://www.studentjobs.gov/>
Institute for Experiential Learning:
<http://www.ielnet.org/>
Institute for Public History Internships:
<http://www.virginia.edu/publichistory/internships.html>

SCIENCES:

Physical Sciences:
<http://www.aip.org/careers/intern/program.htm>
Archaeological Fieldwork Bulletin (via UCLA):
<http://www.cincpac.com/afos/testpit.html>
The Whale Center of New England:
<http://www.whalecenter.org/intern.htm>
American Society for Microbiology:
<http://www.asm.org/Education/index.asp?bid=1211>
Centers for Disease Control and Prevention:
<http://www.cdc.gov/train.htm>
US Dept. of Energy:
http://www.scied.science.doe.gov/scied/sci_ed.htm

WOMEN'S ISSUES:

Internship Directory from Feminist Majority foundation Webpage:
<http://www.feminist.org/911/jobs/911jobs.asp>
Internships-USA: www.internships-usa.com (Contact Career Services for password)
Womens Policy:
www.womenspolicy.org
Women's Research & Education Institute: www.wrei.org

National Organization for Women:
www.now.org/organization/intern.html

**SEASONAL – SUMMER CAMPS –
RESORTS – PARKS:**

Back Door Jobs - Exciting Career
Adventures: www.backdoorjobs.com

Coolworks - a list of seasonal jobs:
www.coolworks.com/showme

Peterson's Guide to Summer Jobs:
www.petersons.com/summerop

Campstaff: www.campstaff.com

Great Ohio camp jobs
www.acaohio.org

Search more than 2,000 camps with
ACA accreditation www.acacamps.org

Alaska State Parks Volunteer
Internship Positions:

www.dnr.state.ak.us/parks/vip

American Camping Association/New
England Camps: [www.acane-
camps.org](http://www.acane-camps.org)

Summer employment opportunities -
www.campjobs.com

Tons of NEW listings for summer!:
www.summerjobs.com/

Great Summer Jobs Worldwide:
www.greatsummerjobs.com/

Summer Jobs site geared towards
students and recent grads:

<http://www.aplus-summerjobs.com/>

HO10 – Global Trends Discussion Sheet

Globally, the economy is becoming increasingly complex as it evolves with the forces of technology, globalization, and population shifts, which inevitably affect how and where we work.

This is a brief summary for discussion purposes. Please note that this is only a sample, information changes rapidly and that the tools provided to conduct research that is tailored to your needs is crucial for your success.

Developing Asian nations

Nations such as Taiwan, India, Japan, and Hong Kong are becoming powerful global economic forces and are positioning their countries to develop a skilled workforce. Many of these countries have a burgeoning population with places like India and China bulging with 1+ million citizens.

Taiwan

First, the Taiwanese government recognizes that a skilled workforce is the basis of all development and is implementing policies accordingly. (Source: Taiwan Yearbook 2003, www.gio.gov.tw/taiwan-website/5-gp/yearbook/chpt18.htm)

OPPORTUNITY – With the competencies and skill shortages in this country there is significant opportunity for skilled graduates to enter and compete in this labour market as it grows and develops.

Japan and Hong Kong

Other regions such as **Japan** and **Hong Kong** are still recovering from long recessions, and waves of employment downsizing conducted by multinationals and local firms. However, forward thinking is allowing these countries to position themselves to be strong competitors in the creation, commercialization, and distribution of technology.

China

In regions such as China, the shift away from state-owned enterprises and toward the expansion of private industry, small and medium-sized companies offer the best opportunities for employment.

OPPORTUNITY – Employment is plentiful in sectors with human resources shortages, such as the agricultural, construction and building, engineering, hotel and service, IT, shipbuilding, oil and mining, and textile industries. China is considered wealthy in terms of the social and economic fundamentals necessary to support a high technology economy. These include its huge population, the rapid adoption of new technology by its consumers, and the expansion of modern fibre-optic networks throughout urban areas. (Source: China Career Guide, GoingGlobal.com)

OPPORTUNITY – Despite this continent's large, highly educated population base, they are also experiencing a wide range of human resources shortages in knowledge based occupations such as IT (microelectronic specialists, robotic specialists, marketers, biotechnology specialists, lawyers with a technical background, etc.)

Africa

In regions such as **South Africa**, unemployment is high, in large part due to a shortage of skilled workers.

OPPORTUNITY--Major areas of employment include financial services, business services and mining. Observers believe that South Africa holds the promise of becoming a major manufacturing country in the global marketplace. (Source: South Africa Career Guide, GoingGlobal.com)

India

The Vision 2020 report foresees India evolving into an information society and knowledge economy, based on a platform of information and communication technology.

OPPORTUNITY – India's claim to the title Silicon Valley of Asia will be followed by the diversification from IT to biotechnology, medical sciences and other emerging fields of technology, widening the field of India's international competitiveness and generating a large number of employment opportunities for educated youth. These developments, driven by the commitment of the government, and a rapid expansion of vocational training programs, will ensure jobs for skilled workers by 2020. (Source: India Vision 2020 report)

Europe and the UK

One million additional IT professionals are needed in the UK in the next five years. IT research consultancy the Gartner Group predicts that there is currently a 20 percent shortfall of IT staff in the UK. This number will probably rise to about 25 percent over the next three years. The British government has been influential in addressing the skills problem by increasing the allocation of visas for foreign professionals and encouraging organizations to increase their training resources. With an increase in the numbers employed in professional and managerial occupations, generic skills such as communication and planning skills have become increasingly important. This trend is expected to continue. Computing and IT skills are also becoming critically important. The centrality and complexity of the use of such equipment has been a key feature of the past decade. The development of these skills amongst the labour force is currently still inadequate to meet the requirements of a 21st Century economy.

In order to recruit and retain workers, it is important for employers to recognize that part of the 'solution' is to 'adapt' jobs to the individuals available. There are two aspects to this: first, a greater emphasis on training and staff development as opposed to reliance on the external labour market; and second, a better recognition of how different 'work-life balance packages' can play a role in attracting and retaining workers from different population sub-groups (such as women returners). Other areas such as education, research, science and technology (including engineers) and in the culture/media/sports sector. Similar challenges are facing the UK with retirement and the need to replace an aging workforce.

Finally there is significant work going on in several areas where there are shortages to increase mobility and decrease challenges over certification and recognition for key areas of growth such as engineering. There are significant numbers of “hard to fill positions” that exist and will continue to develop, posing a challenge and need for expanded recruitment activities.

Germany

Germany is suffering from a lack of qualified skilled labour in various sectors such as media, information technology, professional services, and research and development. It is working to become more attractive to skilled workers from other parts of the world.

OPPORTUNITY – Currently, Germany is experiencing a shortage of qualified workers in areas such as media, information technology, professional services, and research and development. (Source: Germany Career Guide, GoingGlobal.com)

Americas

United States

In the **United States** the employment picture has been characterized by widespread flux for the past two decades, as companies hire and fire workers to adjust to economic conditions. This practice is expected to continue. The hardest hit by employment cuts have been the telecom, technology, airlines, tourism, and media/advertising industries.

OPPORTUNITY – On the other side of the coin are industries like health care and certain segments of information technology, which can't find enough qualified employees to fill open positions. The Bureau of Labour Statistics states that the longer-term outlook for IT jobs in the U.S. is strong. Overall, engineering employment is expected to increase as well as the demand for sales and marketing professionals. (Source: USA Career Guide, GoingGlobal.com).

Central America

Certain states in **Brazil** are attracting investment and employment in agribusiness is still essential to Brazil's economy as it continues to shift to modern technology and professional management techniques. Business services and services in general are expanding faster than manufacturing and agribusiness. Employment in sectors like tourism and continued professional education are growing in a significant pace.

These brief profiles just provide you with a glimpse of what is happening around the globe but you probably picked up on some commonalities amongst the different regions.

Canada

Similar to other western nations, **Canada** also faces a critical shortage of skilled workers. This situation is exacerbated by the trend of skilled Canadians leaving for the US for better wages and the aging population. It is estimated that the shortage of skilled worker could grow to one million by 2020.

OPPORTUNITY – The Bank of Canada recently suggested that a shortage of skilled workers in Canada is spreading beyond high-tech industries, forcing employers in numerous sectors to compete for a shrinking pool of qualified labour. Industries now experiencing employment shortages include construction trades, truck transportation, engineering, food services, and accommodation.

To increase the skilled employment pool in Canada, legislation has been introduced to make it easier for immigrants to enter the country (Source: Canada Career Guide, GoingGlobal.com).

Other

Australia

Employment in sales, IT, accounting and finance, office support, and marketing should be abundant in the near future. Other areas showing positive employment signs include health care, pharmaceuticals, call centers and customer service, consumable goods, transportation, wholesale distribution, domestic travel, and leisure camping and eco-tours. Following September 11, 2001, the tourism and hospitality industries in Australia suffered a sharp decline in trade, which naturally prompted a downturn in employment. However, recent signs point to an increase in hiring in these fields.

Other Western Countries--Similar to many developing nations, developed nations such as **Australia** and the **UK**, have a huge demand for educated professionals especially in the IT field.

OPPORTUNITY – For e.g., it is predicted that within the next three years, there will be a 25 percent shortfall of IT staff in the Australia with the recent upturn in its economy.

There are many other trends for you to explore but this should get you started!