Index

acquisitions 45, 61
agglomeration and diffusion 194, 196–9
American Express 96
Antwerp 17, 72
Applications Service Provider (ASP) 71
appropriability 184
Armstrong, J. 186, 189
Arrow, K. 112
articles, star-linked, as indicator of firm success 186–8
ISI HighlyCited.com website 190–91
ASP (Applications Service Provider) 71
Bakersfield, California 143
Baumol, W.J. 14, 108, 112
Bhidé, A. 101
biotechnology firms, comparison of entry 184–5
Californian firms 186–8
Blunder, A.S. 14
brain drain flows 200–4
Braudel, Fernand 16
Brewer, M.B. 183–4
Brooks’ Law 70
Brooks, Frederick 70
build-operate-transfer model 86–7
business discoveries 102
Californian biotech firms 186–8
call centers 77
Central America 19
Central Banks 17
Chief Executive Officers, evidence regarding offshoring see offshoring
China 19, 88, 89–91
Chinitz, B. 131
cities and entrepreneurship measurement of entrepreneurship and city/employment growth 153–7
through firm size 148, 149, 153 correlations/regressions 169–73
new plants 173–8
through self-employment across industry groupings 134–7
across metropolitan areas 143–8
correlations/regressions 148–53, 162–8
income categories by industry 137–43
theories relating to differences across cities
Culture of Entrepreneurship 158–9
Customers 161
Inputs for New Firms 159–61
Supply of Entrepreneurs 158
see also entrepreneurship CiDRA 58–9
Citibank 96
civil service, trust in 115
clinical trials 92–6, 93–4
closure rate of firms 177
communication, offshoring and 64–5, 84
managerial bandwidth problems 68–70
communications technology 14, 15, 27–8
see also information technology (IT) competitive advantage 61–3
construction see mining, utilities and construction
customer demand 161
customer related data 27, 31
customers’ interests 20
globalization see growth in trade; venture capital (VC)
Great Britain 94, 185
Greece 107
gross domestic product (GDP), as job satisfaction determinant 106–10
growth in employment 153–7, 174, 176–7
growth in trade 13–22
19th and 20th centuries 14–15
Netherlands 16–18
outsourcing, comparative advantages 19–21
increased productivity, effect on gains 21–2
protection of interests, technology 22
technology transfer, role of 18–19
see also openness

happiness and job satisfaction 104, 106–10
and economic performance 105
estimated equation 108–109
trust and work ethics 116–18
Happiness: Lessons for a New Science
104
Hayek, F.A. 101
health services sector 73, 135, 136, 139, 142, 146, 149
high-level groups 27–8, 31
Honolulu 143, 144

Iceland 107
ICT products and services see communications technology; information technology (IT)
income categories by industry, self-employment 134–43, 137–43
India 45, 73–6, 81, 82, 86, 96
as example of outsourcing processes 19–22, 64
intellectual property issues and 89, 90
testing and other services 87–8, 93
Indian Institute of Management, Bangalore 74–5, 86
inflation 108
information and communications technology (ICT) see communications technology; information technology (IT)
information technology (IT) as example of outsourcing processes 19–20
demand patterns 36–9
communications spending 37
hardware 32–6, 37–8
operating systems 41
services 38
software 29, 36, 39, 41–2
‘extreme programming’ 66
offshoring companies 60
partitioning problems 65–7
specification problems 82–3
supply and skills 72–5
domestic resistance 75–7
team size issues 70–2
testing 99
VC-backed and Fortune 100 comparisons 96–7
self-employment rate in 135, 136, 138, 142, 145–6, 149
venture capital investment 28–30, 32–6, 96–7
see also communications technology
Infosys 74
innovation
changing conception of 15, 204–205
investment strategy and 25–6, 85
technology diffusion 39–43
offshoring and 98–9
production-innovation-ownership nexus 30–47
star scientists and 70, 182–8
see also research and development (R&D)
Inputs of New Firms theory 159–61
Institute for Scientific Information 190
intellectual property (IP) 88–92
International Relationships 28
international trade, job satisfaction analysis and 108
investment see venture capital (VC)
IP (intellectual property) 88–92
ISI HighlyCited.com website 190–91, 194
Israel 65, 69, 75, 83, 184–5
IT see information technology (IT)
Entrepreneurship and openness

James, William 181, 204
Japan 112
importance of technology
innovators to 184, 185
patents 18
Jensen, R. 182
job satisfaction and happiness see
happiness and job satisfaction
Kallal, H. 153
Kauffman Foundation 2
Keefer, P. 112
Knack, S. 112
knowledge transfer 26
Korea 89
Kumar, Professor 74–5, 86
labor mix 176–8
labor mobility and technology transfer
182–3
labor productivity 102–103
working hours 103, 108
Layard, R. 104
liberalization see openness
Litan, R. E. 112
location advantages 36–9
Longitudinal Research Database (LRD) 173
managerial bandwidth constraints
68–70
manufacturing, high- and low-skill
135, 136, 138, 139, 144, 149, 152,
176
marketing 101–2
markets, the finding of new 16–17
Marxism 106
Max Planck Institute 2
McLean, Malcom 14–15
medical devises, trials 94–5
metropolitan growth, firm size and
employment growth correlations
153–7
Metropolitan Statistical Areas (MSAs)
143–8, 159–60, 169–72, 174
migration and emergence of star
scientists 194–200
brain drain flows 200–204
ties to firms and (1973–1989)
184–5
mining, utilities and construction 135,
136, 139, 142, 144, 149
Miracky, W. 153
Mozilla Foundaation 66
MSAs see Metropolitan Statistical
Areas (MSAs)
multinational companies 96
NAFTA (North American Free Trade
Agreement) countries 87
NAICS (North American Industrial
Classification System) 134
NanoBank.org, database 190, 194
National Institutes of Health 204
National Research Council 190
National Science Foundation 190, 204
natural catastrophes and cooperation
17
Nelson, R. R. 101
Netherlands 16–18, 107
new establishment creation 173–8
New Zealand 107
Nordic nations 112
Odyssey logistics management 60
offshoring 58–99
difficulties in
choice and appropriateness 59,
77–82
specialization 95–6
communication, external and
internal 64–5, 84
domestic resistance 75–7
managerial bandwidth constraints
68–70
optimal team size and 70–2
partitioning problems 65–8
suitable supply and ‘style’ of
development 72–5
distribution of in-house facilities, by
function 79
drugs and devices, trials 92–6
legal issues relating to copyright
88–92
outsourcing and 62–3, 82–8
‘build-operate-transfer’ model
86–7
distribution of, by function 78
reasons for
competitive advantage, experience
Index

115

217

and outlook, investor
couragement 61–3
physical goods, value-added
resellers and overseas bases
60–61
revenue share of large companies
96–7
significance of 58–60, 97–9
start-up costs 84–5
see also venture capital (VC)
OLI framework for global ownership
and production 24
openness 1–3
and protectionism 17, 22
intellectual property issues 88–92
see also culture and openness;
growth in trade
Organisation for Economic Co-
operation and Development
(OECD) countries 108, 110,
112–14, 201
Ostwald, Wilhelm 205
outsourcing
comparative advantages 19–21
increased productivity, effect on
21–2
protection of interests, technology
22
offshoring companies and 82–8

paradigm of foreign direct investment
24, 25, 26
Paraxel 92
partitioning problems 65–8
patents 18, 88
as data source 177, 190
PFs see portfolio firms (PFs)
Pharmaceutical Manufacturers
Association 186
pharmaceuticals sector 92–6, 186
Phelps, E.S. 101, 103
physical goods 60
Porter, M.E. 161
portfolio firms (PFs) 27–8, 30, 32–6
domestic and foreign investment
comparisons 39–43
startup finance and 45–7
product demand patterns in IT
36–9
Portugal 107
product cycle 24
cost-based investments 32–6
location advantages: demand
patterns 36–9
production, offshore 77–82, 98
specification problems 82–3
production-innovation-ownership
nexus 30–47
productivity, gains wiped out by
increase in 21–22
protectionism 2
benefits gained by Antwerp 17
intellectual property issues 88–92
outsourcing processes and 22
proximity 26, 186
publications see articles, star-linked, as
indicator of firm success
Quality Assurance (QA) 62, 79–80

R&D see research and development
(R&D)
religion and cultural differences 115
research and development (R&D)
offshoring and 61, 62, 63–8
domestic resistance 75–7
organizational and cultural
problems 68–70
supply and skills 72–5, 95–6
see also innovation
retail trade 135, 136, 139, 145, 149,
151
Ricardo, David 21
Russia 73, 184–5

S&T see science and technology
(S&T)
Sassuolo ceramics industry 161
Say, J. -B. 13, 15
Scheinkman, J.A. 153
Scherer, F.M. 177
Schramm, C.J. 112
Schumpeter, J.A. 101
science and technology (S&T)
firm entry 184–8, 191–4, 196–8
migration (brain drain) flows
200–204
scientific discoveries see star scientists
self-employment rates
across industry groupings 134–7
income categories by industry 137–43
across metropolitan areas 143–8
correlates with city/employment growth 154–5, 156
correlates with overall rate and firm size 148–53
regressions 162–8
semiconductors, offshore contracting 60, 79
services sector, self-employment in 135, 136, 137, 139, 140, 142, 146, 149
shipping containers 14–15
Shleifer, A. 153
social services see education, health and social services
Spain 107
Spokane, Washington 143
star scientists
emergence and migration of 194–204
their importance to success of firms 181–2, 186–8
dynamics of their activity 184, 204–5
their influence on related entry of firms, data 184, 188–91, 205
empirical results 191–8
technology transfer through labor mobility 182–3
ties to firms and migration rates (1973–1989) 184–5
see also entrepreneurship
startup finance 45–7
offshore development and 75–7
Stevenson, Howard 91
Stoneriver 87
supply and skills 72–5, 95–6
Supply of Entrepreneurs theory 158
Switzerland 73, 185
team size 70–72
technological opportunity 184
technology transfer 18–19, 39–43, 182–3
testing 62, 79–80, 87–8, 93, 99
drug trials 92–6
Thomson VenturExpert database 27–47
Thursby, G.J. 182
trade growth see growth in trade
trading with the enemy 18
transaction processing overseas 77, 97
transportation 135, 139, 145
innovation in 14–15, 19
trials, clinical 92–6
trust, impact of 115–17
Ukraine 88
unemployment 108, 110
United Kingdom of Great Britain 94, 185
university scientists, industry and 182, 184, 205
United States of America as example of outsourcing processes 19–22
product-innovation cycle 24
research universities system 205
self-employment (2000) 134
star scientists, importance of 181–2, 184–5, 192–4, 205
brain drain of expatriates 200–204
Californian biotech firms 186–8
technology importation 18
VCs and PFs, deals between 27–8
share of software development 36–7, 41
utilities and construction see mining, utilities and construction
value-added resellers of offshore resources 60–61
values, cultural 111–18
offshoring and 75–7
VC see venture capital (VC)
venture capital (VC) 85, 166, 173
concentration by country 43–7
and by product 32–3
database used for analysis of 27
high-level groups 27–8, 31
ICT products and services 27–8
IT as focus of 28–30
demand patterns 36–9
foreign and domestic investment, comparisons 30, 39–43
Fortune 100 companies and startups 45–7
innovation and investment strategy 25–6, 85
technology diffusion 39–43
investment in high-level groups 31
see also offshoring
VenturExpert database 27–47
Vernon, Raymond 24, 25, 26
Virtusa 60
Vivre 60
Weber, Max 106
West Palm Beach 143, 144, 153, 161
Wipro 85
Wolff, E.N. 14
work ethics 115–17
world gross domestic product (GWP) 14, 15
World Values Survey 104, 111–12
Zucker, L.G. 183–5, 186, 190, 191–93