

APPENDIX F

**Recent Research Excellence
Initiatives**

<i>Country/region</i>	<i>Name of initiative</i>	<i>Number of target institutions and eligibility criteria</i>	<i>Resources allocated</i>	<i>Investment horizon</i>
Africa	NEPAD/Blair Commission for Africa (proposed) ^a	Revitalize Africa's institutions of higher education Develop centers of excellence in science and technology, including African institutes of technology	US\$500 million a year, over 10 years Up to US\$3 billion over 10 years	Launched in 2006
Canada	Canada Networks of Centers of Excellence ^b	23 currently funded Networks of Centers of Excellence 16 previously funded Networks	C\$77.4 million per year since 1999 C\$47.3 million a year in 1997–99 C\$437 million in total in 1988–98	Operating since 1988; permanent program since 1997
Canada	Canada Global Excellence Research Chairs ^c	Four priorities in the Federal Science and Technology Strategy: the environment, natural resources and energy, health, and information and communication technologies	C\$21 million	2009–12
Chile	Chile Millennium Science Initiative ^d	Groups of researchers	3 science institutes: US\$1 million a year for 10 years; 5–12 science nuclei: US\$250,000 a year; US\$25 million in total in 2000–04	Every 5 years for nuclei and every 10 years for institutes

China	China 211 Project ^e	107 higher-education institutions	Y 36.82 billion during 1995–2005	Launched in 1996: 1996–2000 (1st round) 2001–06 (2nd round) 2007–11 (3rd round)
China	China 985 Project ^f	39 research universities	Y 27.07 billion (1st round)	Launched in 1999: 1999–2001 (1st round) 2004–07 (2nd round)
China	Chinese Academy of Sciences (CAS) Institutes ^g	Mathematics and physics 15 Chemistry and chemical engineering 12 Biological sciences 20 Earth sciences 19 Technological sciences 21 Others 2	Y 4.80 billion (1st round)	1998–2000 (1st round) 2001–05 (2nd round) 2006–10 (3rd round)
Denmark	Denmark (Globalization Fund)	Funds to be allocated to research universities on a competitive basis	US\$1.9 billion between 2007 and 2012	Launched in 2006
Europe	European Commission, Framework Programme 7 (FP7) ^h	TBD – determined by structure of research proposals (RFPs)	Based on number of RFPs with a “center of excellence” structure Overall FP7 budget is €50.5 billion covering 2007–13 ⁱ	2007–13
France	“Opération Campus” ^j	Develop 10 regional centers of excellence in higher education and research. Overall, the centers will regroup 38 universities and research organizations, representing 340,000 students and 13,000 researchers.	€5 billion	Launched in 2008

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Germany	Germany Excellence Initiative 2006 ^k	40 graduate schools 30 clusters of excellence (universities and private sector) 10 top-level research universities	US\$2.3 billion in total	Five-year funding; two rounds: 2006 and 2007
Japan	Japan Top-30 Program (Centers Of Excellence for 21st-Century Plan) ^l	31 higher-education institutions	US\$150 million/year (program total: 37.8 billion yen)	Five-year funding; launched in 2002; 3 rounds: 2002, 2003, and 2004
Japan	Japan Global Centers of Excellence Program ^m	50–75 centers funded per year (5 new fields of study each year)	50 million–500 million yen per center per year (~US\$400,000– US\$4 million)	5 years; launched in 2007
Republic of Korea	Brain Korea 21 Program ⁿ	Science and technology: 11 universities Humanities and social sciences: 11 universities Leading regional universities: 38 universities Professional graduate schools in 11 universities	US\$1.17 billion in total	7 years; two rounds in 1999
Republic of Korea	Korea Science and Engineering Foundation (KOSEF) ^o	Science research centers (SRCs)/ engineering research centers (ERCs): up to 65 centers	US\$64.2 million/year	1) up to 9 years 2) up to 9 years 3) up to 7 years

		Medical science and engineering research centers (MRCs): 18 centers National core research centers (NCRCs): 6 centers funded in 2006	US\$7 million/year US\$10.8 million/year	All 3 programs launched in FY 2002 or FY 2003
Russian Federation	Russian Federation's "Federal Universities" ^p	Establish a network of high-status federal institutions that are specialized research universities and lifelong vocational centers	n.a.	Under consideration (two pilot universities were established in 2007)
Taiwan (China)	Taiwan Development Plan for University Research Excellence ^q	Selection and financial support of internationally leading fields	US\$400 million	4 years
United Kingdom	U.K. Funding for Excellent Units ^r	Universities with the highest marks after the research assessment exercise (RAE)	US\$8.63 billion disbursed after 2001 RAE	5 years for research council-funded centers ^s Two rounds: 1996 and 2001; 2008 RAE scheduled ^t
United States, Arizona	Science Foundation Arizona ^u	Public-private partnership to strengthen scientific, engineering, and medical research	US\$135 million + US\$135 million (1:1 matching)	Annually since 2006
United States, California	California Institutes of Science and Innovation ^v	University-industry partnerships to address state problems	US\$400 million + US\$800 million (2:1 matching)	Annually since 2000

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United States, North Dakota	North Dakota Centers of Excellence ^w	Public-private centers focusing on local needs	US\$50 million + US\$100 million (2:1 matching)	Annually since 2007
United States, Washington	Washington State Life Sciences Discovery Fund ^x	Bioscience research that provides economic and health benefits	US\$350 million	10 years since 2005
United States, Georgia	Georgia Research Alliance ^y	Public-private partnership to recruit eminent scholars to Georgia universities	US\$30 million	Annually since 1990
United States, Indiana	Indiana 21st-Century Research and Technology Fund ^z	Academic and commercial sector partnerships	US\$26 million	Annually since 1999
United States, Kentucky	Kentucky's "Buck for Brains" ^{aa}	Endowed chairs for top talent	US\$350 million	Since 1997
United States, Ohio	Ohio's Third Frontier ^{bb}	Establishment of centers of innovation as joint initiatives of universities and private research organizations	US\$1.6 billion	10 years since 2003
United States, Oklahoma	Oklahoma Center for the Advancement of Science and Technology ^{cc}	Nanotechnology research	US\$29 million	Annually since 1987

Sources: Produced by Natalia Agapitova, Alka Arora, Michael Ehst, and Jamil Salmi (last update June 23, 2008).

Note: US\$ = U.S. dollars, C\$ = Canadian dollars, Y = Chinese yuan, € = euros, n.a. = not available.

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b. <http://www.nce.gc.ca/>.

c. www.budget.gc.ca/2008/speech-discours/speech-discours-eng.asp.

d. <http://www.msi-sig.org/msi/current.html>.

e. Ministerial Office of 211 Project (2007), *Report on 211 Project (1995–2005)*. Beijing: Higher Education Press.

f. N. C. Liu and L. Zhou (2007), *Building Research University for Achieving the Goal of an Innovative Country*. Beijing: China Renmin University Press.

g. [http://www.itps.se/Archive/Documents/Swedish/Publikationer/Rapporter/Arbetsrapporter%20\(R\)/R2007/R2007_001%20FoU-finansiarer.pdf](http://www.itps.se/Archive/Documents/Swedish/Publikationer/Rapporter/Arbetsrapporter%20(R)/R2007/R2007_001%20FoU-finansiarer.pdf). Chinese Academy of Science, <http://www.cas.ac.cn/html/books/o6122/e1/04/tongzhi/tz004.htm>; <http://baike.baidu.com/view/229786.htm>.

h. <http://ec.europa.eu/research/era/pdf/centres.pdf>.

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j. http://www.france-science.org/Operation-Campus-6-projects-kept?var_recherche=operation%20campus; <http://www.universityworldnews.com/article.php?story=20080613092922742>.

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l. <http://www.jsps.go.jp/english/e-21coe/index.html>.

m. <http://www.jsps.go.jp/english/e-globalcoe/index.html>; http://www.jsps.go.jp/english/e-globalcoe/data/application_guidelines.pdf; http://www.jsps.go.jp/english/e-globalcoe/data/review_guidelines.pdf.

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p. <http://www.universityworldnews.com/article.php?story=20081024094454199>.

q. <http://unpan1.un.org/intradoc/groups/public/documents/APCITY/UNPAN015416.pdf>.

r. <http://www.hefce.ac.uk/research/funding/>.

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w. <http://governor.state.nd.us/media/speeches/040325.html>.

x. <http://www.lsdfa.org/home.html>.

y. <http://www.gra.org/homepage.asp>.

z. <http://www.21fund.org/>.

aa. <http://www.wku.edu/IA/bucks/index.html>.

bb. <http://www.odod.ohio.gov/tech/program.htm>.

cc. <http://www.ocast.state.ok.us/>.