



Conférence débat

Les orientations stratégiques du Brésil en matière de recherche, d'enseignement supérieur et de mobilité : un enjeu de coopération

Luiz Davidovich, professeur de physique à l'Université fédérale de Rio de Janeiro, secrétaire général de la 4e Conférence nationale pour la science, la technologie et l'innovation (mai 2010),
vice président de l'Académie brésilienne des sciences

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Paris

Science without borders: The Brazilian scientific mobility program at CNPq/MCT

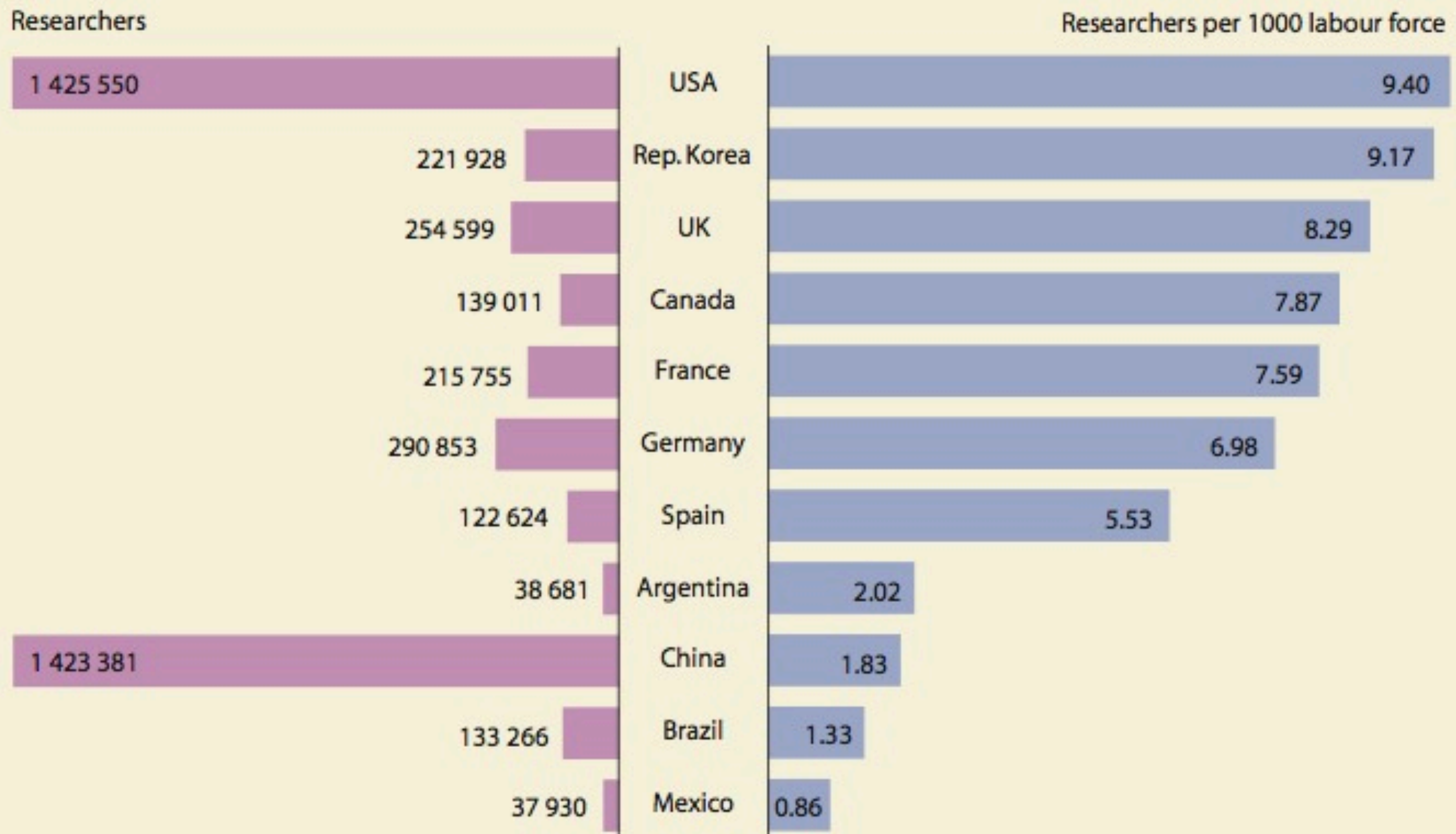


Quelques motivations

- Faible proportion de docteurs par rapport à la population
- Il y a un faible taux de demandes de brevet nationaux et internationaux, ce qui entrave l'innovation
- Le système éducatif, à son tour, n'a pas de mesures efficaces visant à amplifier l'interaction des étudiants brésiliens avec d'autres pays et cultures.
- Une attention particulière devrait être accordée à promouvoir le retour des scientifiques brésiliens travaillent à l'étranger, mais le programme n'est pas limité à cet aspect.

Quelques chiffres (Rapport UNESCO 2010)

Figure 6: Researchers in Brazil, 2008
Other countries are given for comparison

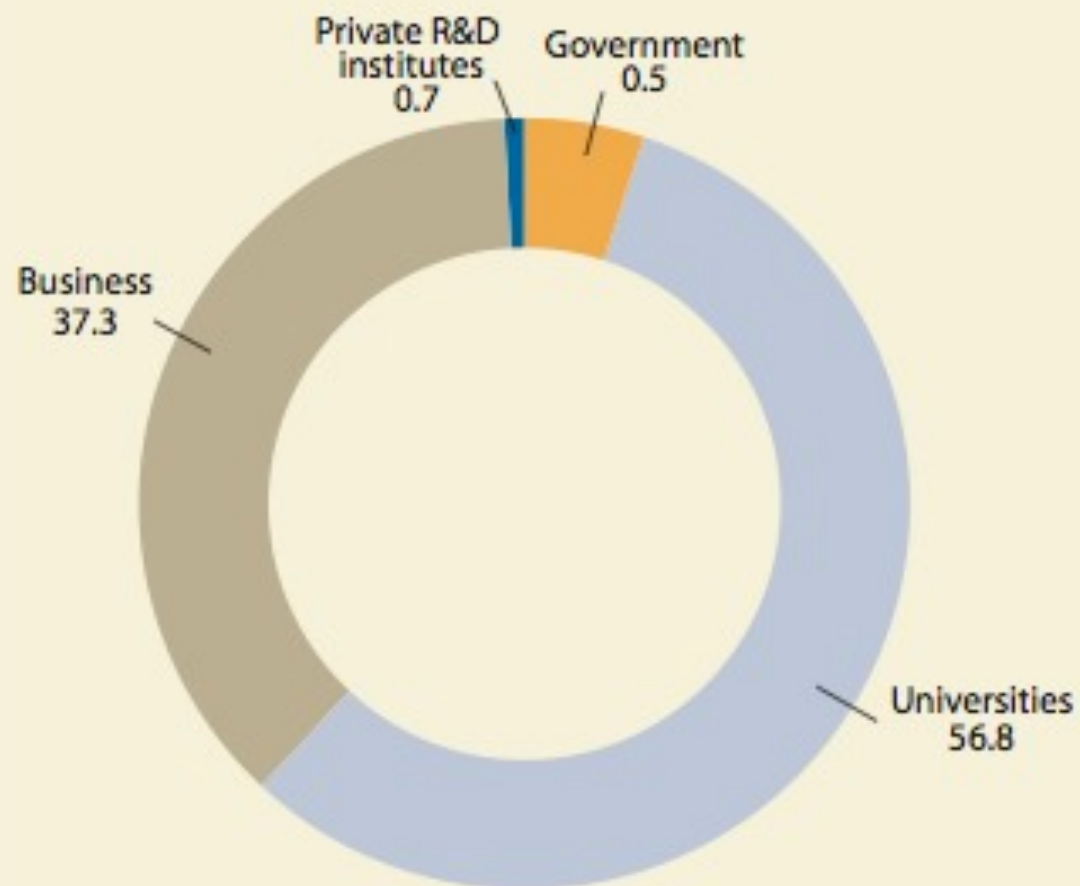


Source: Ministry of Science and Technology database, May 2010

Quelques chiffres (Rapport UNESCO 2010)

Figure 7: Researchers in Brazil by performing sector, 2008 (%)

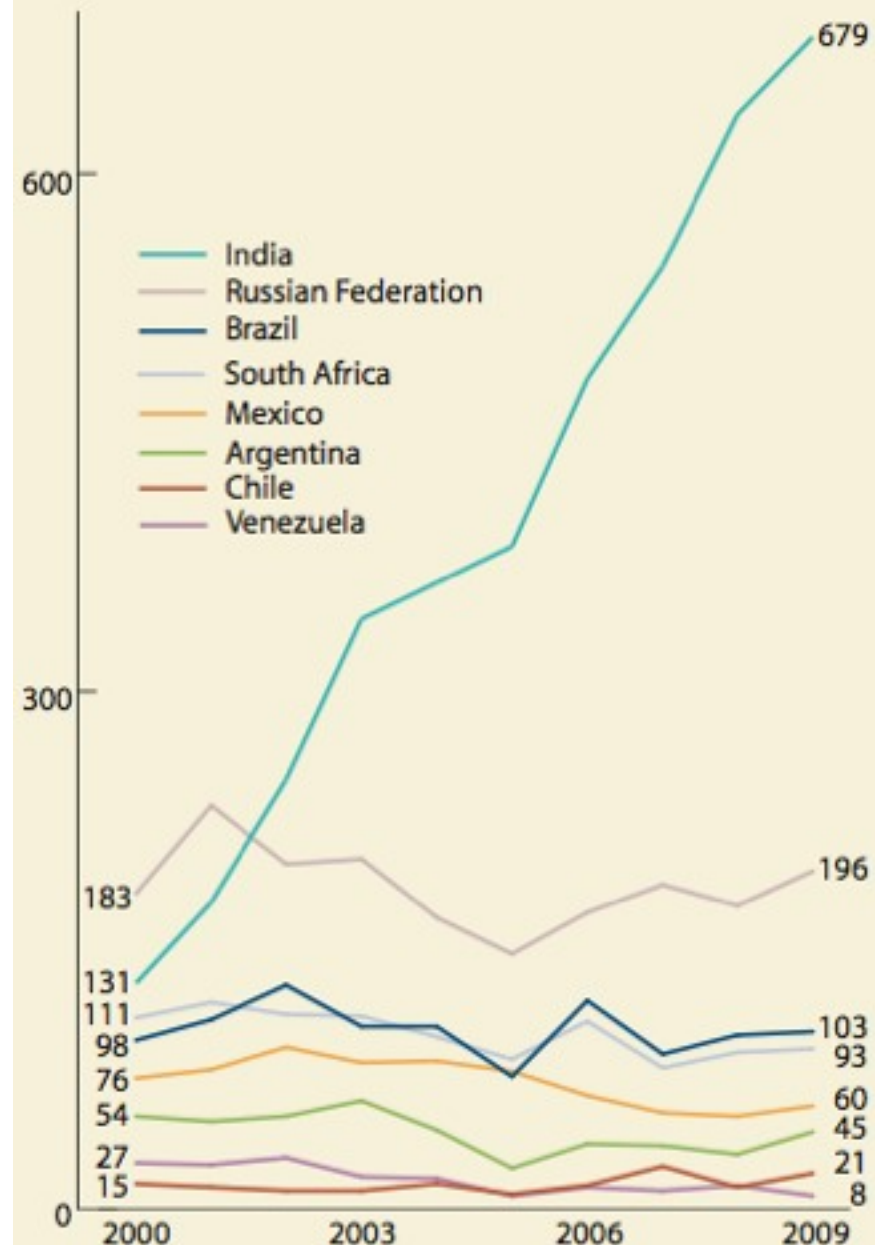
Full-time equivalent



Source: Ministry of Science and Technology database, June 2010

Figure 10: USPTO patents awarded to Brazilian inventors, 2000–2009

Other countries are given for comparison



Objectives

The main goal is to promote the consolidation and expansion of science, technology and innovation in Brazil through international exchange and mobility.

A two-way mobility program is proposed:

- Increased presence of Brazilian postdocs and students of various levels in overseas institutions of excellence. Brazilian institutions will open similar opportunities for foreigners;
- Increased international presence of Brazilian scientists and technical personnel from the technological industries;
- Encourage the coming to Brazil of young talents and highly qualified researchers, working on strategic problems of science, technology and innovation, and staff training of interest to the country;

Contribute to the internationalization of universities and research centers in Brazil by encouraging the establishment of international partnerships, and whenever necessary, adapting and promoting a meaningful review of internal procedures in our universities and research

Mechanisms

Enabling the international mobility of Brazilian students and researchers, from undergraduate to the



postdoctoral level, to the best research institutions abroad;

Attracting young talents and scientific leaders from abroad to work locally with Brazilian scientists.

CNPq will negotiate exemption of fees with Universities or local governments, or will participate in negotiations for obtaining private support for payment of the fees.

Sujets et domaines d'intérêt

- Engineering and other technological areas;
- Exact and Earth Sciences (e.g. Mathematics, Physics, Chemistry);
- Health and Biomedical Sciences (Biochemistry, systems biology, neurosciences, etc);
- Computing and Information Technology;
- Aerospace;
- Pharmaceuticals;
- Sustainable Agricultural Production;
- Green Chemistry;
- Oil, Gas and Coal;
- Energy;
- Minerals;
- Biotechnology;
- Nanotechnology and New Materials;
- Climate Change;
- Biodiversity;
- Marine Sciences;
- Productive Inclusion and Social Technologies;
- Housing and Sanitation.

Pour les brésiliens

CNPq will support the travel and scholarships for living expenses, installation assistance and health insurance to:

Undergraduate students for 6 months, or up to 12 months if an internship in laboratory or in industry is included;

Support for obtaining an **doctoral academic degree abroad**, either a complete program up to four years or in sandwich programs of 12 months;

Postdoctoral fellowships:

For candidates with a doctorate, and accepted in leading international institutions abroad. Minimum of 6 months and maximum of 24 months.

Depuis l'étranger

Young **post-doctoral researchers** working abroad and with very good scientific accomplishments can receive a post-doctoral funding and resources to meet two to three years of postdoctoral work in Brazil. Would be eligible researchers having received their doctorate degree in the last seven years and who have excelled both qualitatively and quantitatively in their scientific or technological career. The host research group receives funds in two years, as a bench fee.

An international call of proposals will be periodically published in leading international journals. The program anticipates supporting up to 100 young researchers per year.

Leaders scientifiques

Special Visiting Researcher

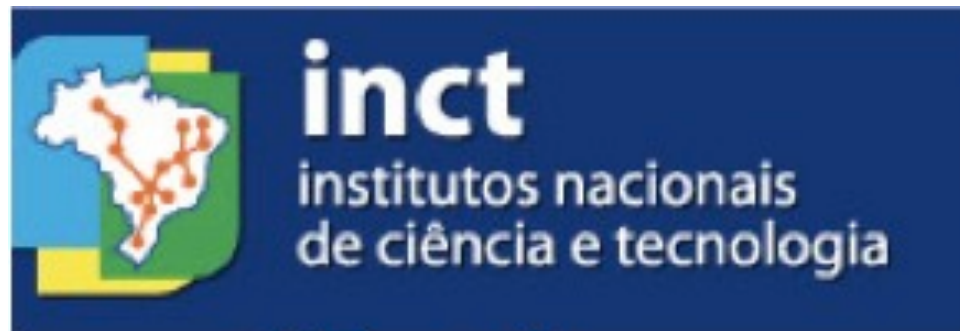
Senior researchers will be stimulated to perform joint projects with research groups in Brazil and to work in Brazil for one or two months every year.

Doctoral students and post doctoral personnel will be supported to work in the project with expected activities both in Brazil and abroad.

The benefits of this component will include the support for living expenses during the period the researcher spends in Brazil and funding for the local laboratory.

Feel free to propose distinct ways of collaborating with Brazilian scientists.

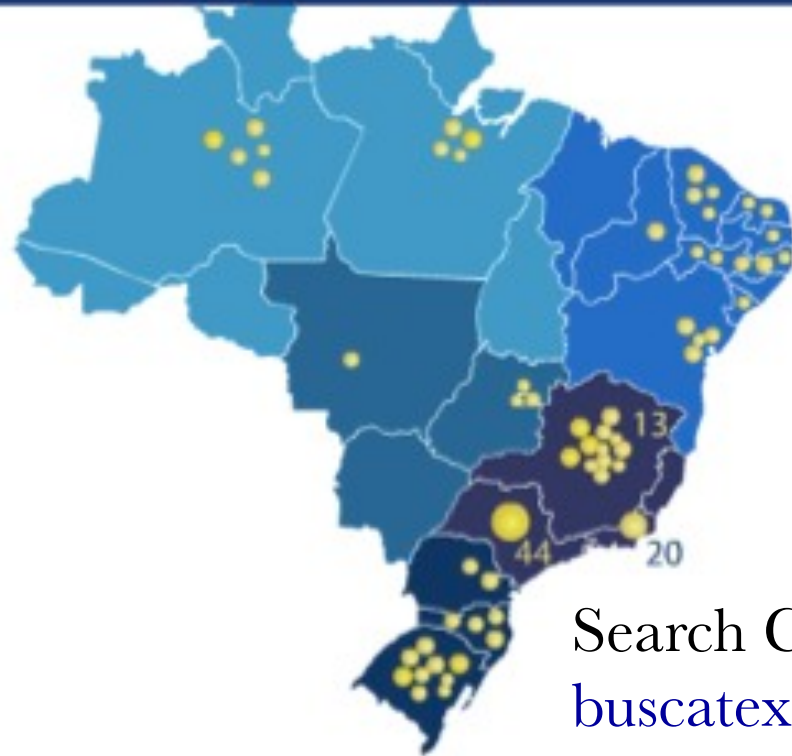
Identificação dos parceiros au Brasil



Main Fields: Agricultural Sciences and Agribusiness; Energy; Engineering and Information Technologies; Exact Sciences; Humanities and Applied Social Sciences; Ecology and Environment; Nanotechnology; Health.

Visit:

http://www.cnpq.br/programas/inct/_apresentacao/index.html



Search CVs: <http://buscatextual.cnpq.br/buscatextual/busca.do?metodo=apresentar>

Search Research Groups: [http://dgp.cnpq.br/ buscaoperacional/](http://dgp.cnpq.br/buscaoperacional/)

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Plataforma  **Lattes**



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Diretório de Instituições

Buscar
Atualizar
Cadastrar

Calendrier et modalités

CNPQ

	Doutorado Sanduiche	Graduação Sanduiche	Pós-Doutorado	Doutorado Pleno	Estágio-senior	Treinamento de Especialista no Exterior (empresa)	Jovem Cientista de grande talento (no Brasil)	Pesquisador Visitante especial (no Brasil)
2011	700	2000	800	140	40	100	100	10
2012	1500	3000	1000	300	120	100	100	20
2013	3500	4500	1200	500	200	200	100	30
2014	5000	6000	2000	1000	300	300	100	40
Total	10700	15500	5000	1940	660	700	400	100

CAPES

Ano	Doutorado sanduíche no exterior	Doutorado pleno no exterior	Pós-doutorado no exterior	Graduação sanduíche no exterior	Estágio Sênior no exterior	Jovem Cientista de grande talento (no Brasil)	Pesquisador Visitante especial (no Brasil)	Total
2011	2.000	250	400	500	100	100	50	3.400
2012	3.500	2.000	1.000	3.000	500	120	80	10.200
2013	4.100	2.400	1.200	3.700	600	120	80	12.200
2014	4.300	3.200	1.300	4.400	800	120	80	14.200
Total	13.900	7.850	3.900	11.600	2.000	460	290	40.000

Budget

	CNPq		CAPES	
Descrição	Quantidade	Orçamento (R\$)	Quantidade	Orçamento (R\$)
Total	35.000	1.415.289.082	40.000	1.697.475.144
Gestão e Administração do Programa	1%	14.152.891	2%	33.949.503
Total Geral		1.429.441.973		1.731.424.647

Attraction des scientifiques au Brésil

- **Jeunes scientifiques.** Ils recevront une bourse spéciale de environs 7000 reais pour un maximum de trois ans et des ressources de recherche supplémentaires de l'ordre de 40 mille reais par an. Le programme veut attirer jusqu'à 1.200 jeunes chercheurs.
- **Leaders scientifiques.** Le chercheur s'engage à venir au Brésil sur une base régulière pré-définis (au moins un mois chaque année) de recevoir des étudiants et des chercheurs brésiliens dans son laboratoire. C'est prévue l'association avec le groupe au Brésil qui sera responsable de la gestion du projet. Les avantages comprennent la bourse d'invité spécial d'un montant de 14 000 R\$ / mois, pendant qu'il est au Brésil, le coût d'un voyage annuel pour le chercheur, une bourse pour un pos-doc, et R\$ 50 000 par an en tant que ressources pour la recherche. Le programme veut attirer jusqu'à 300 leaders internationaux.

Quelques questions...

- Comment assurer le retour des étudiants?
- Comment concilier ce programme avec les besoins des cours au Brésil, lesquels cherchent à attirer les meilleurs étudiants?
- Comment concilier le grand nombre d'élèves concernés avec l'idée qu'ils doivent aller aux meilleurs établissements?