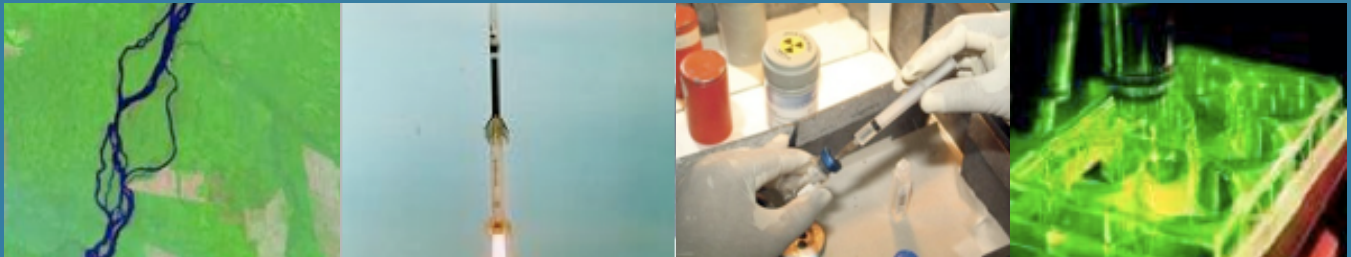


Science without borders: The Brazilian scientific mobility program at CNPq/MCT



June, 2011

A new step for the Brazilian science, technology and innovation

To promote technological advances and innovation in Brazil by increasing the collaboration of Brazilians with the international community

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

centers to make the interaction with foreign partners feasible.

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.



Currículo Lattes

Buscar
Atualizar
Cadastrar



Diretório de Instituições

Buscar
Atualizar
Cadastrar

Identifying partnerships in Brazil

INCTs

Brazilian National Institutes of Science and Technology

The National Institutes of Science and Technology (INCT) are research networks which congregate leading Brazilian researchers and institutions, focused in specific themes and areas of expertise. The INCTs are centers of excellence in their fields and offer an attractive and stimulating environment for talented students of different levels, from high school to post-graduates.

The program is also directly responsible for the training of young researchers and support the installation and operation of laboratories in educational institutions and research firms, providing a better distribution of national scientific and technological research, and the qualification of the country in their priority areas for regional and national development. The National Institutes also establish programs that contribute to the improvement of science education and dissemination to the society.

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

Lattes Platform

Searching for Institutions and Scientists

Investigators' CVs

Integrates the databases of curricula, research groups and R&D institutions into a single Informations System. Presently the Platform has more than 1.8 million CVs, of people directly involved in science, technology and innovation, including researchers, technical staff and research students.

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

Research groups

Research groups formed by personnel from different institutions but regularly working together in scientific questions, can also be assessed in the Directory of Research Groups.

Search Research Groups: <http://dgp.cnpq.br/buscaoperacional/>

Institutions of Science and Technology

It is also possible to search Brazilian institutions actively involved in the S&T system at the Directory of Institutions, at:

<http://di.cnpq.br/di/cadi/consultaInst.do>

A program to promote Brazilian science

International mobility

Brazilian science has demonstrated significant growth in recent years but still faces major challenges: a low proportion of doctors in relation to population and a low interaction between the academic research with the business sector and with the civil society. In addition, the Brazilian scientific publications have a low frequency of international collaboration.

All well qualified academic and research centers around the World are going through an intense process of internationalization, increasing its visibility and addressing the needs of today's globalized world. Brazilian institutions need to rapidly engage in this process.

There is a low rate of patent applications nationally and internationally, which hampers innovation, with bad consequences for our economy, not contributing to the required increase in competitiveness.

Several factors hinder a more international view of the Brazilian science. The educational system, in turn, has no effective actions aimed to amplify the interaction of Brazilian students with other countries and cultures.

In the 1970s and '80s, there was a significant movement of Brazilians to train abroad. Upon their return, these scientists contributed to the vigorous development of the science produced in Brazil. The country needs a strong new program to encourage the internationalization of technology and innovation.

The mobility program proposed here aims to launch experimentally the seeds of what could revolutionize the educational system, the Brazilian students exposed to an environment of high competitiveness and entrepreneurship.

Besides contributing to the correction of the above mentioned limitations, the *Science without Borders* Program aims to attract young

investigators and internationally recognized research leaders to Brazil. Talented researchers will work jointly with local investigators in joint projects. Such effort will contribute to the capacitation of highly qualified human resources. The Program will support students to work with the visiting scientist both in Brazil and abroad increasing the interaction of Brazilian students of various levels with the participating scientists. Special emphasis should be given to promote the return of Brazilian scientists working abroad, but the Program is not limited in this aspect.

Topics and areas of interest

The research lines and research subjects of interest to the program are:

- 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.



Ministério da
Ciência e Tecnologia



How to participate

CNPq will actively engage in agreements with the best technological and scientific institutions around the World and Brazilian institutions are also stimulated to seek international collaborations with counterparts abroad.

Proposals may not be limited to the forms described here and we welcome creative new approaches to the same goals.

More informations and inquires:

sciencewithoutborders@cnpq.br

For Brazilians



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.

Image http://www.panoramablogmario.blogspot.com.br/brasil_academia.jpg

From abroad



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.

Science leaders



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.

Image: The Lancet