



COPPE

Alberto Luiz Coimbra Institute for Post-Graduate Studies and Research in Engineering
Federal University of Rio de Janeiro

Location

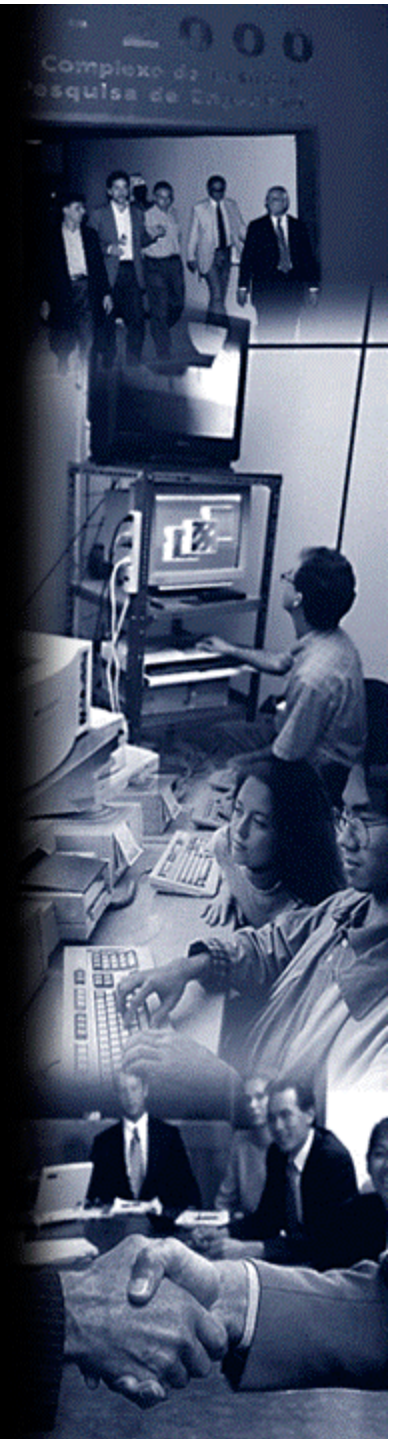
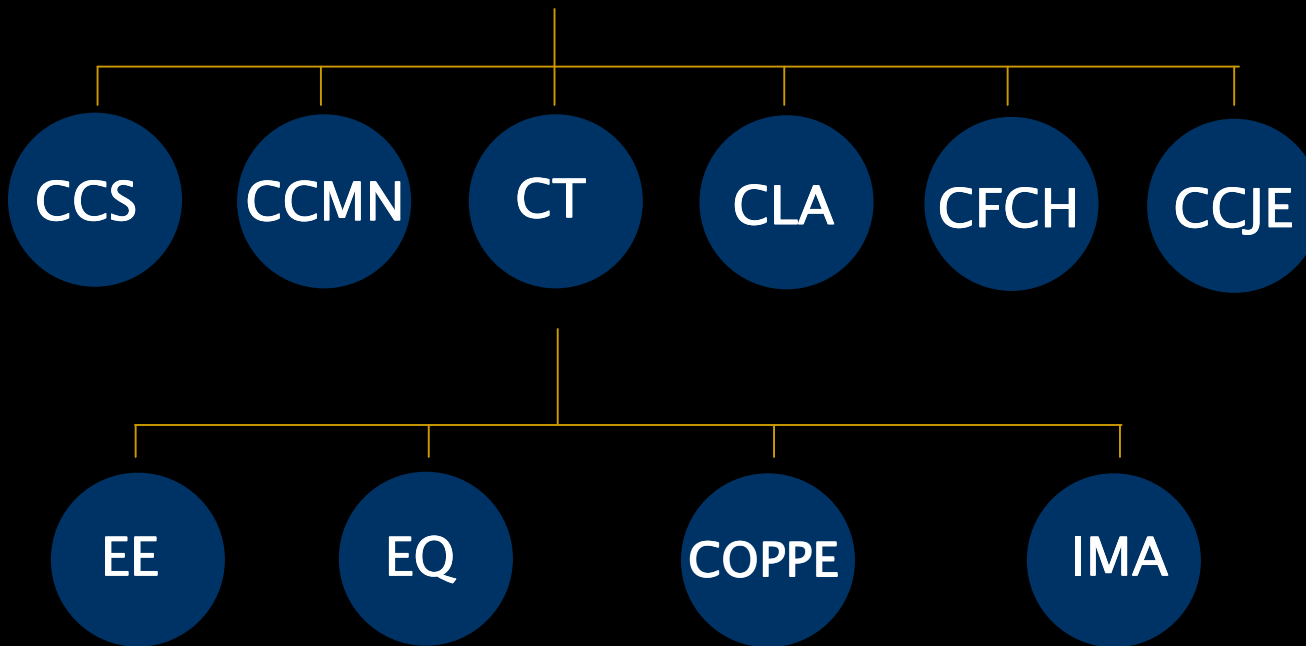
COPPE
FEDERAL UNIVERSITY
OF RIO DE JANEIRO

Centro de Tecnologia,
Cidade Universitária,
Ilha do Fundão.



The Federal University of Rio de Janeiro and COPPE

UFRJ

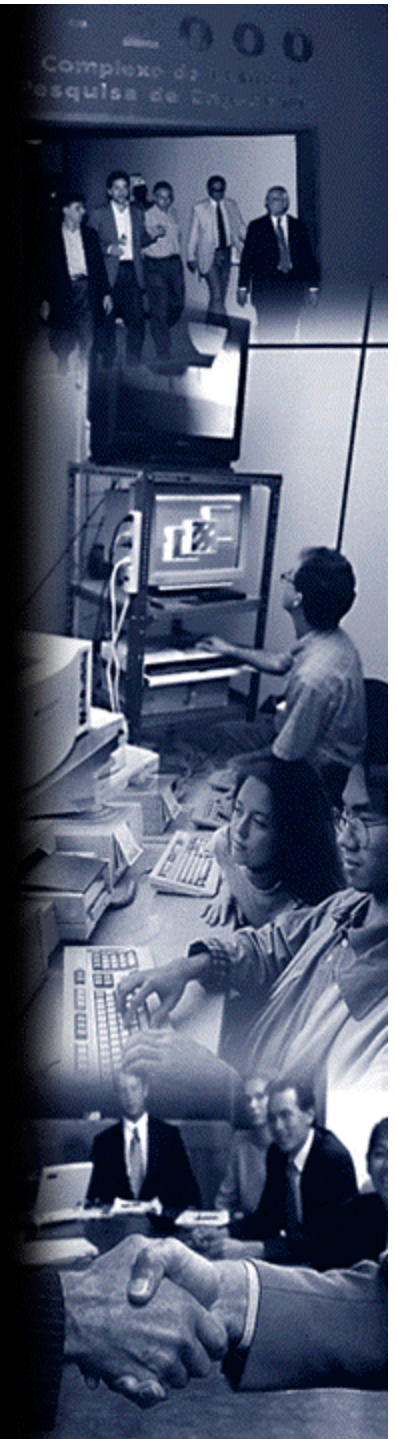


The Federal University of Rio de Janeiro and COPPE

40.000 Students

**121 Under graduate
courses**

139 graduate courses



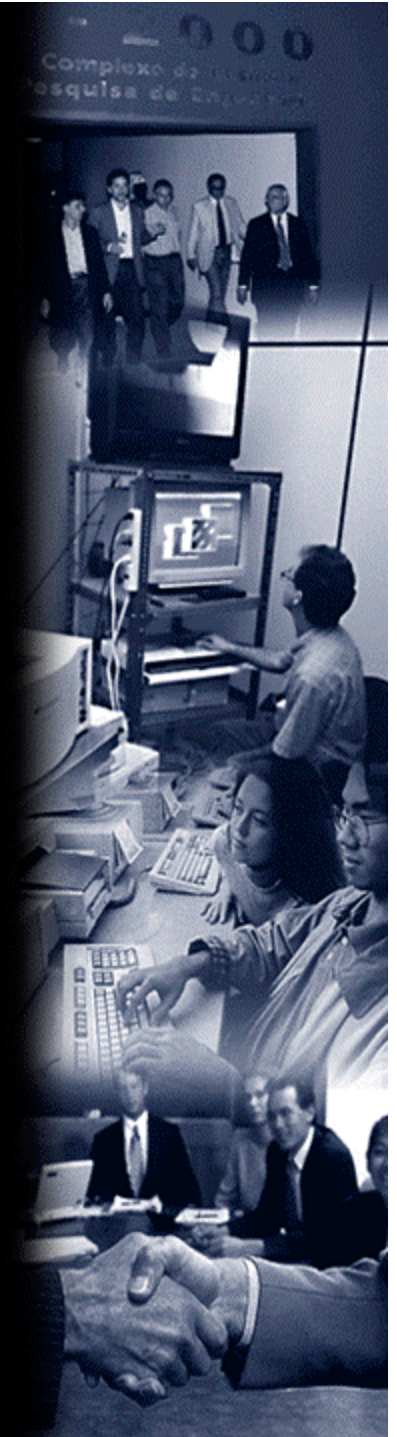
The History of COPPE

1963 – 1st Engineering Programme

1965 – Became an Academic Unit

1969 – Moved to Ilha do Fundão

1970 – Industrial Interaction Office Established

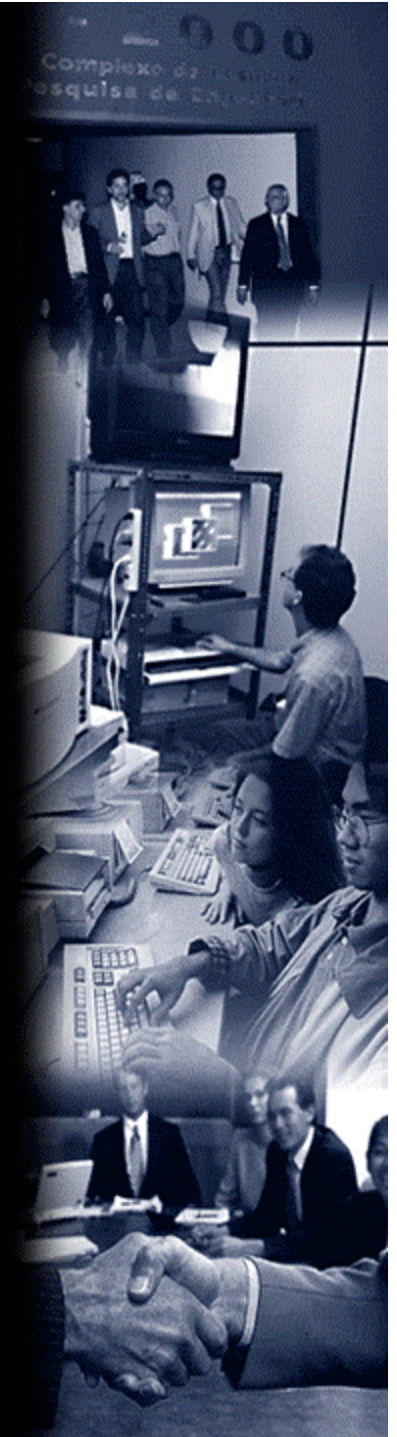


COPPE's Objectives

MSc, DSc & Continuing Education

Basic & Applied Research

Co-operative Projects with Industry & Society



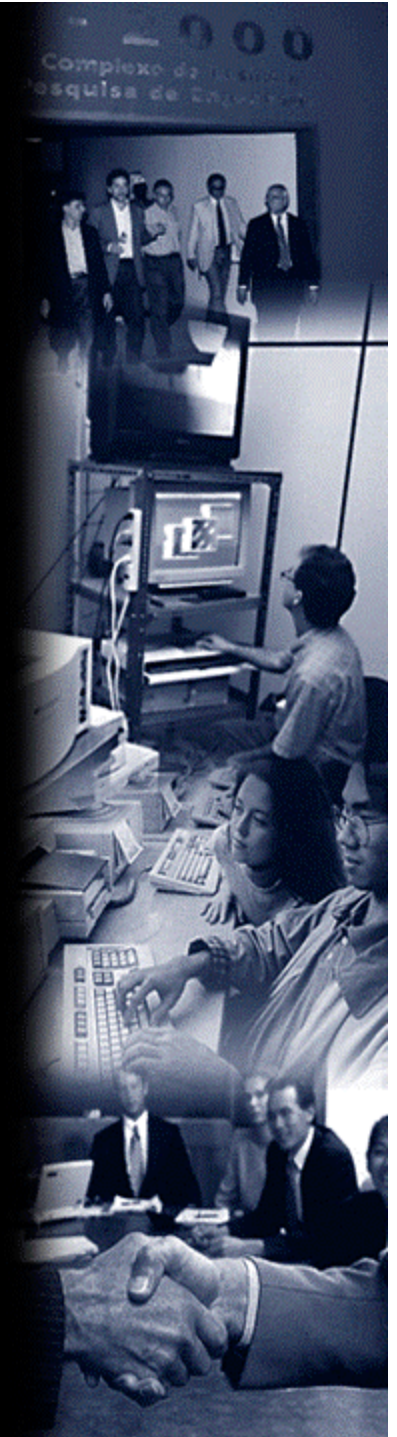
Academic Organization

12 Graduate Engineering Programmes

4 Undergraduate Courses

6 Interdisciplinary Areas

11 Nuclei of Excellence:
(6 coordinations & 5 participations)
PRONEX / MCT



COPPE's Programmes

Civil
Engineering

Electrical
Engineering

Metallurgical
& Materials
Engineering

Transport
Engineering

Chemical
Engineering

Production
Engineering

Biomedical
Engineering

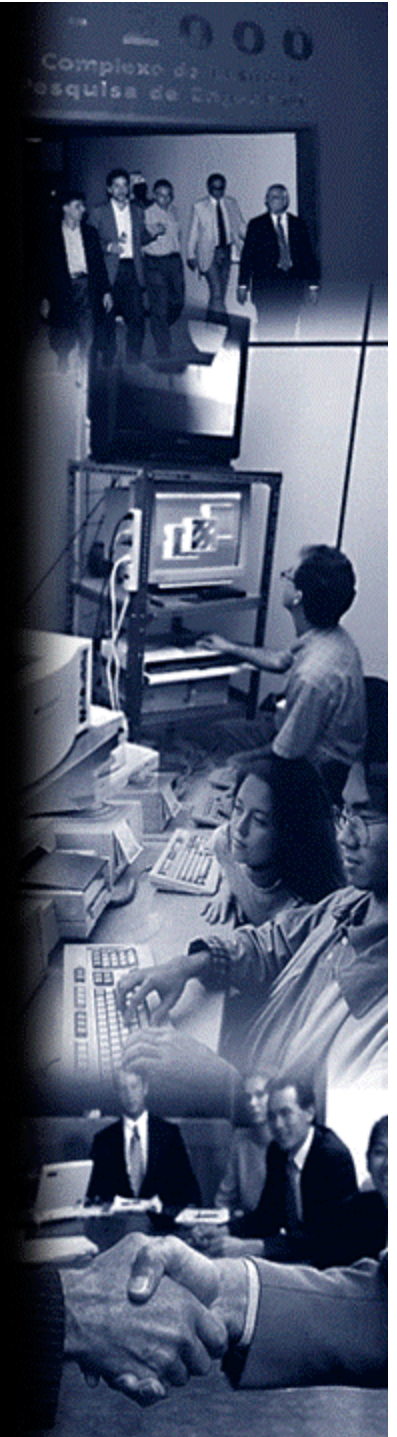
Systems &
Computational
Engineering

Mechanical
Engineering

Ocean
Engineering

Energy
Planning

Nuclear
Engineering



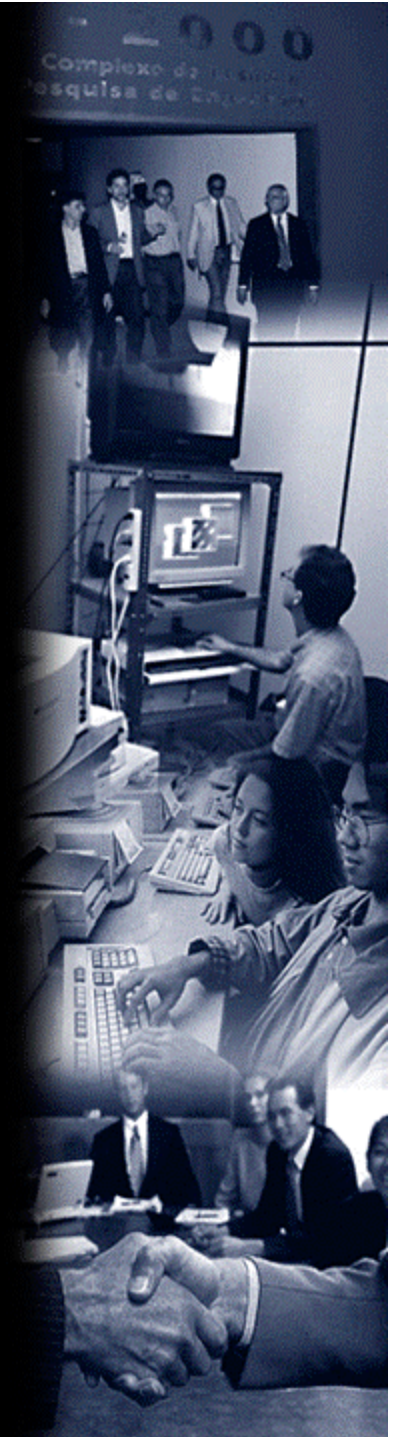
COPPE's Undergraduate Courses

Oil & Gas Engineering

Automation & Control Engineering

Computer & Information Engineering

Environmental Engineering



The Interdisciplinary Areas

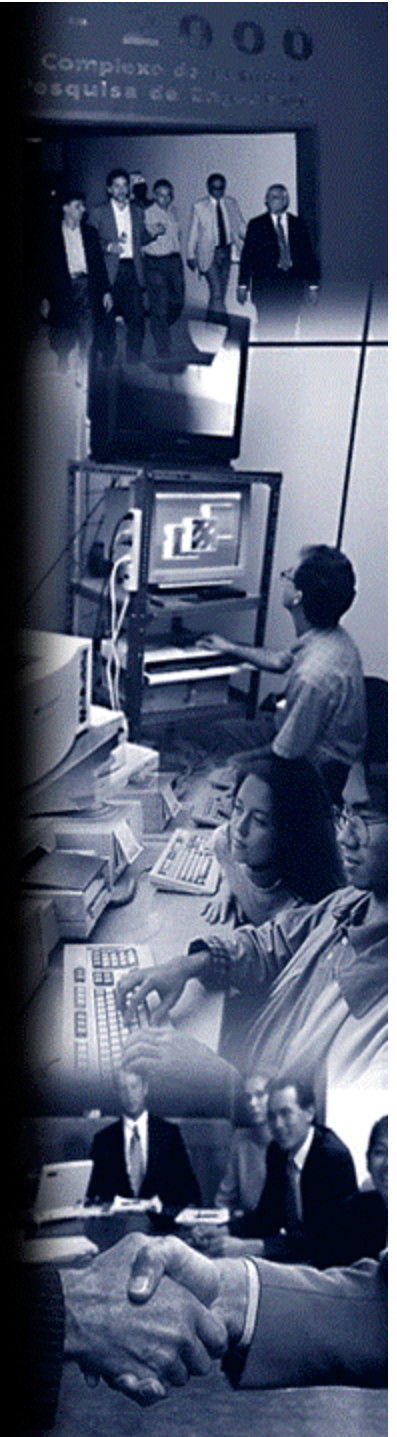
Composite Materials

High Performance Computing

Environmental Engineering

Marine Resources Exploration

Telecommunications



Research Infrastructure

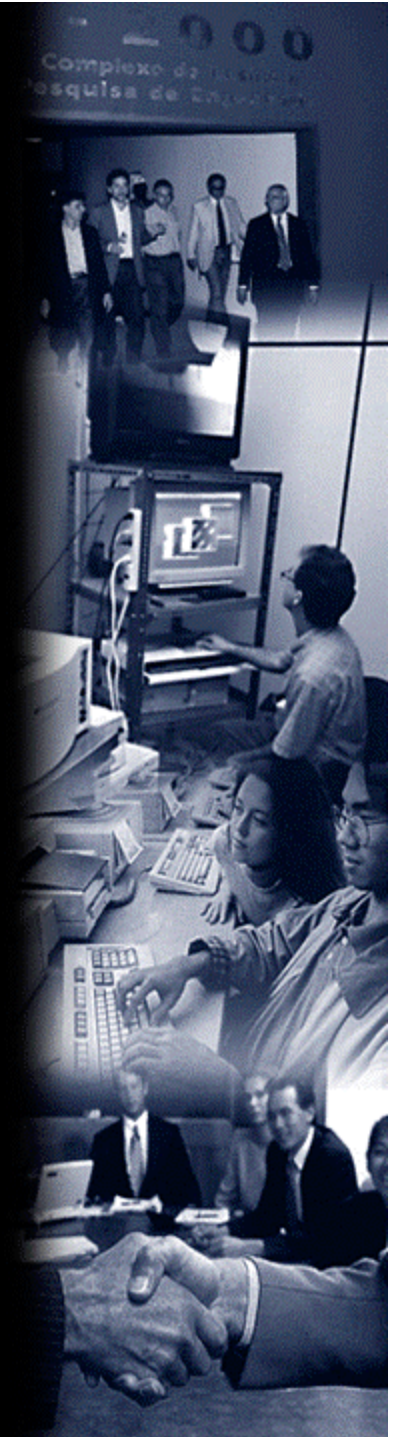
I-2000:

12.000 m² of New Laboratory Installations

NACAD

(High Performance Computing Consultancy Nucleus)

OCEAN TESTING TANK

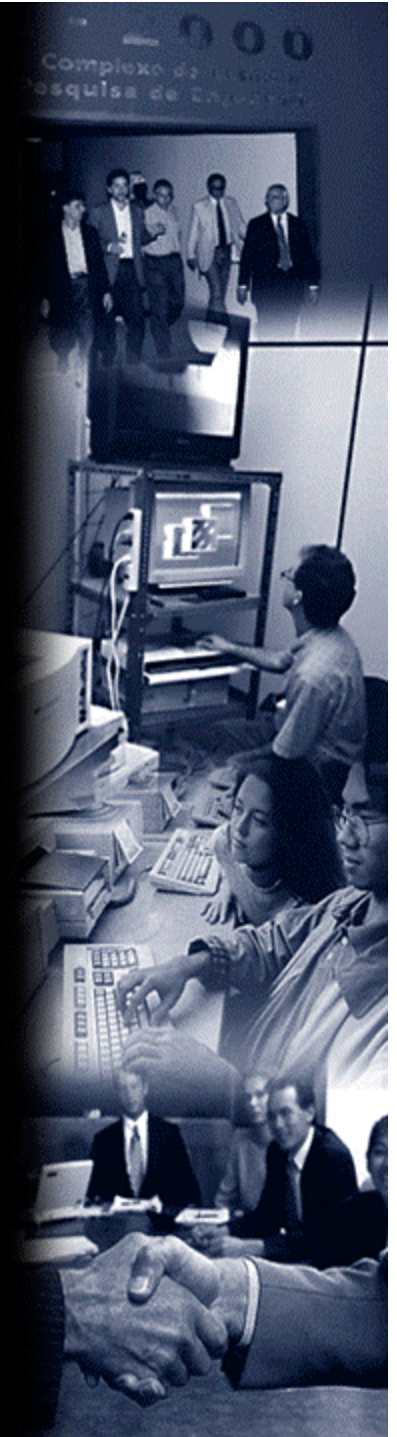


The Human Resources Involved

300 Full-Time Professors
with Doctorate

3000 MSc & DSc Students

170 Scientists & Technicians



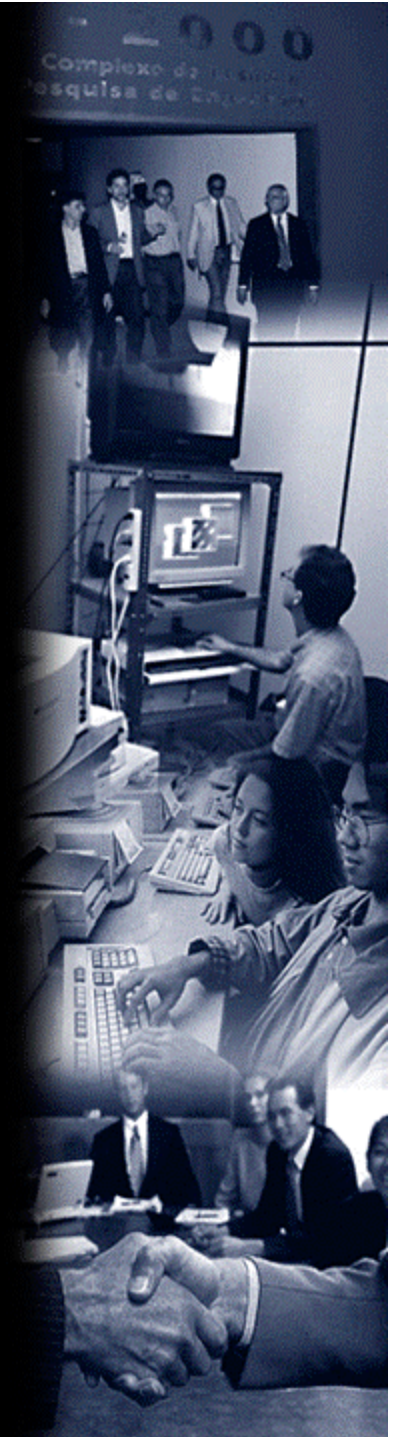
Academic Production (1963 to 2001)

1700 PhD Thesis

6900 Master's Dissertations

2600 Articles in peer reviewed journals

9790 Articles published in National and International conferences



The Interaction with Industry

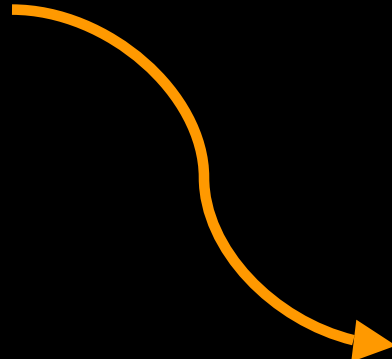
35 years
of
Tradition



1750 Projects
in Progress



US\$ 26 million
annual cash flow



7000 Projects
Concluded



49% of
COPPE's
Budget



Types of Projects

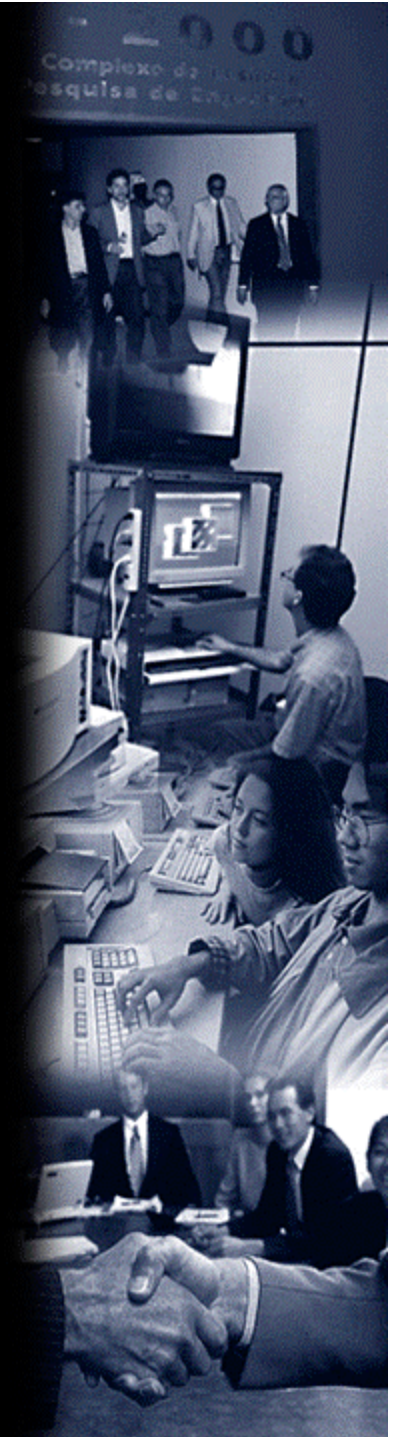
Research & Development

Non-Routine Engineering

Individual Consultancy

Analysis & Tests

Continuing Education Courses



COPPE Activities in Oil & Gas Industry

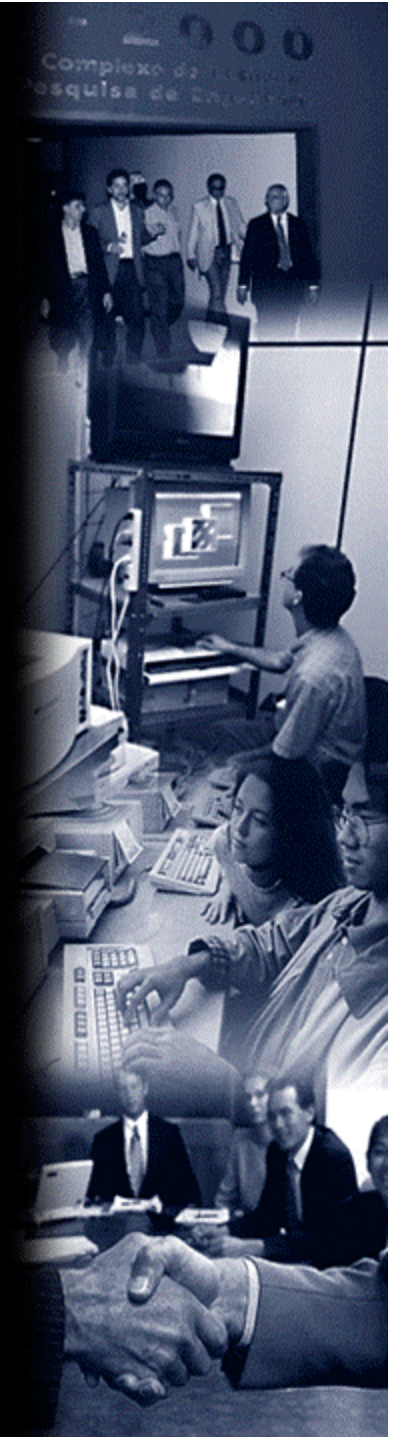
1977 – First Consulting Service for PETROBRAS (Offshore Activity)

2002 – Celebrating the 1000th project with PETROBRAS

August 2002 – 5 years cooperation between COPPE and CEGEQ (The PETROBRAS Excellence Center for Geochemistry)

- Graduate Courses for Employees from Latin America Oil Companies
- Environmental Geochemistry Projects
- Analysis and Thesis in Geochemistry

A portfolio of 159 Projects in the Brazilian Government Funding Program (CTPetro)



Oil & Natural Gas Technology Center of Excellence

Deep water exploration & oil production

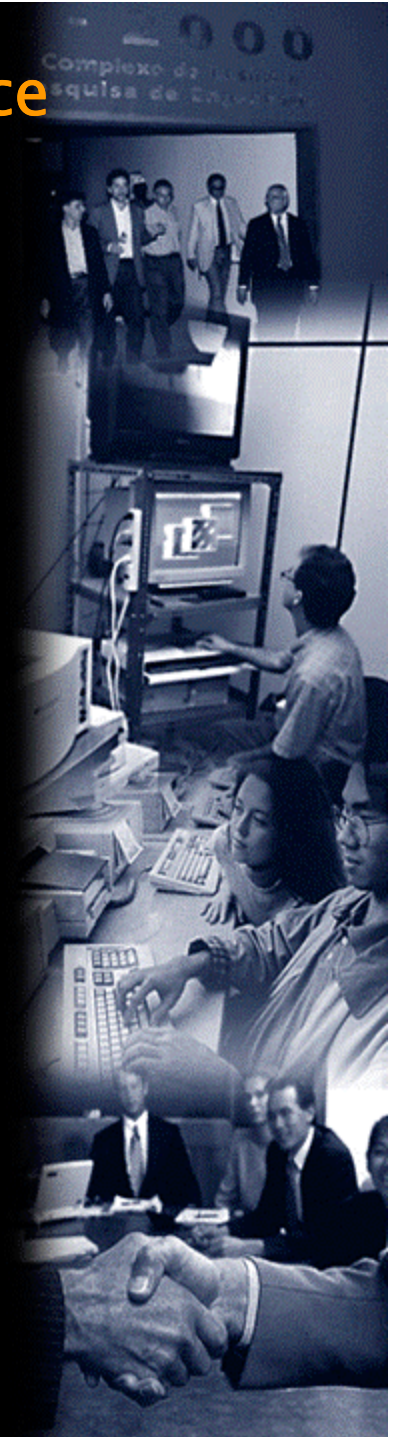
Oil refining & natural gas processing

Logistics, transportation & distribution

Administration of technology & information

Strategic energy planning

Industrial risk assessment & environmental safety



Products & Services

Computational Systems

Subsea Technology

Oil Refining & Natural Gas Processing

Logistics, Transportation And Distribution

Administration Of Information

Energy Planning & Environment

Risk Analysis

