BIOTECHNOLOGY IN BRAZIL - CONSIDERA-TIONS ABOUT HUMAN RESOURCES FORMATION Moraes, I.O, Capaldo, D.M.F*, FEA/DEA/ UNICAMP, **CNPDA/EMBRAPA, São Paulo, Brazil.

In Brazil the application of biotechnology. as well as, the development of new techniques and processes began at the end od last century. Researchers and Research Institutes began to stu dy and develop research mainly in applied microbiology. Aside from improved understanding of the biological and engineering principles, external factores have led to the recent emergence of bio technology. In Brazil these included the opportu nities to use low-cost organic substracts, e.g. forestry residues, agricultural wastes and food industries wastewaters, in favor of petroleum based feedstocks. World markets for biotechnologi cal products are projeted to be on the order of hundreds of billions of dollars by the end of the century. In Brazil, the program of alcohol production began in 1975 and its results are very interesting. Recently in 1984 an important Symposium in Biotechnology realized at FAPESP(Foundation to help research in the state of Sao Paulo) with the contribution of DCET (Science and Technology Department), and based on results obtained by ACIESP(Sciences Academy in the State of São Paulo) tried to recommend the politics to development of Biotechnology in the State of São Paulo. In terms of graduate courses the ACIESP da ta from 25 departments related to the subject, on ly 13 are enrolled, but there are no program, es pecially devoted to Biotechnology. This work presents the existing courses, the curricula of three of then and the relationship between Brazil and some countries that are members of OEA(Ameri can State Organization) whose students are enrolled in these graduate programs, related to biotechnology.