


 branches of knowledge.

## UNIVERSITY STUDIES

The choice of a degree course by women in Spain follows a similar pattern as in most of developed countries. Health sciences (Medicine, Nursery, Pharmacology, Veterinary, Odontology, etc) are mostly preferred by women. In the field of the Experimental Sciences, women are the half of the undergraduated students. However, this ratio decreases when we consider the Physical degree.

The percentage of female students of Physics is similar to the one of the technical studies (Engineering and Architecture). However the percentage of female graduates in Physics is higher than the engineering graduates.


## RESEARCH

Research is mainly carried out in the university, CSIC and other public institutions. The CSIC is the first research organization in Spain. It depends on the Ministry of Science and Technology (MCYT). Salaries are provided by Government. Ph.D. degree is required to achieve a scientific permanent position. The headquarter is placed in Madrid and the research institutes are over the whole country.
The CSIC has a permanent staff of around 4500 persons: Scientific staff 2000, Support Staff 1800 and Administrative and others 700. There also are 2000 persons as staff in training (Ph.D. students). The women ratio in the scientific staff is around $30 \%$.
At the executive board (Chairman (head of the staff), Vice-Chairmen and Management board) the presence of women is around $19 \%$. The scientific staff is divided in three levels and the women ratio in the highest level keeps at the $13.3 \%$, but this proportion decreases in the areas related with Physics (see tables).
The number of female members on the committees to decide the permanent positions and the promotion to higher levels has recently increased to around $26 \%$ although in the areas related with Physics is less than $20 \%$.

## TEACHING

Teaching is the main professional activity for the women graduated in Physics. At the high school level, the ratio of women devoted to this activity is the highest. This is due in part to the system of getting a permanent post. In the other part, teaching at the university requires more effort because it is linked to research. It is difficult to obtain data concerning the number of teacher women graduated in Physics at the high School level since this teaching is shared with the teaching of Chemistry. In addition, many physics teachers are explaining Mathematics.

| PHYSICS SCIENCES AND TECHNOLOGY |  |  |
| :---: | :---: | :---: |
| LEVELS | WOMEN | TOTAL |
| PROFESSOR OF RESEARCH | $3(9 \%)$ | 34 |
| RESEARCH SCIENTIST | $5(9 \%)$ | 58 |
| SCIENTIST | $44(26 \%)$ | 172 |
| TOTAL | $\mathbf{5 2 ( 2 0 \% )}$ | $\mathbf{2 6 4}$ |


| MATERIAL SCIENCE AND TECHNOLOGY |  |  |
| :---: | :---: | :---: |
| LEVELS | WOMEN | TOTAL |
| PROFESSOR OF RESEARCH | $2(3 \%)$ | 63 |
| RESEARCH SCIENTIST | $24(32 \%)$ | 76 |
| SCIENTIST | $70(41 \%)$ | 170 |
| TOTAL | $\mathbf{9 6 ( 3 1 \% )}$ | $\mathbf{3 1 0}$ |


| WOMEN FACULTY MEMBERS (ALL FIELDS) <br> ACADEMIC YEAR 1997/98 |  |  |  |
| :--- | :---: | :---: | :---: |
| LEVELS |  | TOTAL | WOMEN |
| - Full professors and professors | 47,944 | $30.9 \%$ |  |
| - Professors under temporary contract | 31,103 | $32.7 \%$ |  |
| - Assistant professors | 6,874 | $42.5 \%$ |  |
| TOTAL |  |  | $\mathbf{8 5 , 9 2 1}$ |
| $\mathbf{3 3 . 3 \%}$ |  |  |  |
| WOMEN FACULTY MEMBERS IN THE PHYSICS |  |  |  |
| DEPARTMENTS. ACADEMIC YEAR 1997/98 |  |  |  |
| - Full professors (Catedraticos) | 443 | $2.9 \%$ |  |
| - Professors (Titulares) | 1,488 | $25.2 \%$ |  |
| - Professors under temporary contract | 422 | $21.7 \%$ |  |
| (Asociados) | 255 | $27.9 \%$ |  |
| Assistant professors | $\mathbf{T O T A L}$ | $\mathbf{2 , 6 0 8}$ | $\mathbf{2 1 . 0} \%$ |

MEDICAL PHYSICS is another area of importance for the women activities in Spain. The female rate in the Medical Physics association is $29 \%$ and the women rate in the highest level (Head of a Medical Physics Department) is $28 \%$.
INDUSTRY: There are enormous difficulties in finding good gender desegregated statistics, data or general information concerning the female rates at the industry field in our country. Women at the top levels of the companies (managers/presidents of companies or head of department) are lower than $10 \%$. In the Report from the ETAN Expert Working Group on Women and Science (EC, 2000) it is estimated that the percentage of female managers/presidents of Spanish companies taking part in research projects is around 4\%.

The Spanish Physical Society (www.ucm.es/info/rsef) with $19 \%$ of female members has only $11 \%$ of women on the board.

