

# COMMISSION OF THE EUROPEAN COMMUNITIES

COM(80) 245 final.

Brussels, 13 May 1980

Proposal for a  
COUNCIL DECISION

adopting a programme for the European Atomic Energy Community  
and the European Economic Community in the field of scientific  
and technical training

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(submitted to the Council by the Commission)

COM(80) 245 final.

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relating to a programme of Scientific and Technical Training

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UDKAST TIL RÅDETS BESLUTNING OM AT PÅLÆGGE KOMMISSIONEN

1. INTRODUKTION  
1.1. Generelt

The aim of this proposal is to make it possible to continue the scientific and technical training programme based on Article 7 of the Euratom Treaty and Article 235 of the EEC Treaty which originated in the first five-year programme (1958-1962) of the European Atomic Energy Community. Previous programmes were designed to promote the training of a new generation of Community scientific and technical staff in general and, more specifically, the education and development of specialists in fields covered by Community research programmes. The emphasis was on the exchange of students, young scientists and engineers. This encouraged the mobility of scientific staff at all educational levels and enabled them to learn more about the Community's research programmes and make contacts with research centres in other countries. In this way links were established between universities and research centres in the different Community countries and existing relations strengthened.

Spanien, der har ansøgt om tiltrædelse af De europæiske Fællesskaber, har ytret ønske om allerede nu at deltage i aftalen om personalebevægelse inden for rammerne af fusionsprogrammet for at kunne udarbejde og iværksætte det spanske fusionsprogram under optimale vilkår med henblik på en

1.2. Inden for rammerne af fusionsprogrammet  
1.2.1. General

Unlike earlier Euratom programmes, the current programme is based on both Article 7 of the Euratom Treaty and Article 235 of the EEC Treaty since, in addition to nuclear research, it also applies to all areas which are the subject of nuclear or non-nuclear Community research programmes. It was approved by the Council on 21 December 1976 as an indirect action covering

- 1) Kommissionen foreslår på grund af tiltrædelsen af Spanien, at udarbejde og iværksætte det spanske fusionsprogram under optimale vilkår med henblik på en oplysning om samarbejde mellem Fællesskabet og Spanien på området kontrolleret

1.2.2. Content

The programme comprises of the following measures :

1. Award of grants for scientific research work at various levels of training (post-graduate dissertations, Ph.D theses, post-doctorate research). The grants are awarded for research work which must be carried out in a Community country other than the applicant's country of origin. Eligible for these grants are science students, holders of higher education qualifications or doctorates and engineers from the Member States of the Community.
2. Financing of advanced further training courses in areas of particular importance to the Community's research and development policy.

1.2.3. Implementation

For the implementation of all aspects of this programme, the Commission is advised by the Advisory Committee for Scientific and Technical Training (ACSTT), which was set up by the Commission on 12 July 1977. The ACSTT is composed of two representatives from each of the Member States, one from a competent organization and the other having an academic or research background.

The measures to be conducted under this programme were defined as follows :

- a) the awarding of grants for research leading to diplomas awarded by the candidates' home universities
- b) in the case of students from countries in which the preparation of a thesis does not form an integral part of the course of studies (Ireland, UK), the awarding of grants for industrial training in a foreign country which would be recognized as part of their university course
- c) the awarding of grants for the following types of postgraduate study :
  - Ph.D research
  - specialization in a particular field on the basis of scientific research
  - periods spent by young scientists on research in appropriate institutions.

.../...

- d) the awarding of post-doctoral grants for further, in-depth training, particularly in interdisciplinary fields
- e) the organization at research centres in the Community of study periods for young scientists and engineers with some professional experience
- f) financing the agreement between the Community and nine university institutes or research establishments in seven countries concerning assistance to young scientists in the field of molecular biology and radiobiology by the organization of courses and the awarding of grants
- g) the partial financing of courses in the data-processing field, which were approved by the competent CREST Subcommittee.

The work referred to under a) to e) could be carried out in the JRC establishments or in research establishments and institutes associated with the Commission under contracts for the implementation of indirect action projects.

A summary of the results of the current programme to the end of 1979 is attached to this document, (annex 1).

## 2. Future programme

### 2.1. Aims/guidelines

The new programme is intended to continue the experienced work begun by previous programmes, with particular emphasis on :

- encouraging the mobility of scientists at various levels of training working in fields which are the subject of Community research programmes, thereby,
- establishing and strengthening links between scientists working on national and Community research programmes in related fields
- providing opportunities for education and further training at a high level in specialized fields not yet covered by traditional higher education courses.

As the Member States in general already operate large-scale schemes to promote ordinary scientific training, greater emphasis will be placed on encouraging the development of highly qualified young scientists. Such a selective approach should have the advantage that the young scientists concerned can be expected in due course to occupy key positions in universities and elsewhere and will therefore be ideally placed to pass on the benefit of their experiences.

Greater emphasis will also be given in the new programme to further training for qualified scientists and engineers with several years professional experience. A limited period spent on research can be expected to help members of this group to keep abreast of the latest developments, thereby improving their effectiveness and professional prospects.

Finally, the programme will take into account the coming accession of Spain and Portugal and the arrangements for scientific and technical cooperation provided for in agreements between the Commission and a number of non-member countries.

## 2.2. Measures

### 2.2.1. Scope

The programme relates to all Community R&D programmes approved by the Council, i.e. :

- all direct action projects
  - all indirect action projects
- as in the past, and in future also :
- all concerted action projects
  - all cooperation agreements concluded between the Community and non-Member States which cover the scientific and technical field.

2.2.2. Eligibility

The persons eligible are science students in the latter stage of university or polytechnic studies and scientists and engineers holding diplomas and doctorates coming from the Member States and from non-Member States with which the Community has concluded agreements including scientific and technical cooperation provisions.

2.2.3. Categories of application

2.2.3.1. Grants to promote specific skills among the new generation of scientific and technical staff awarded in respect of :

- a) Theses or where these do not form an integral part of the course of studies, in respect of industrial training in a foreign country which would be recognized as part of the university course
- b) Doctorates
- c) Postgraduate specialization
- d) Post-doctoral research work

The scientific projects for which grants are awarded in the various fields must be conducted outside the candidate's country of origin in order to promote the desired mobility.

This condition will not be applied to research work conducted in the establishments of the Joint Research Centre. By their Community status, the latter fulfil the requirement concerning mobility.

2.2.3.2. Grants awarded to finance the exchange of scientists and engineers engaged in national and Community research programmes in the same fields (measures to promote mobility among this group of persons).



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2.2.3.3. Training needs to be provided for certain scientists and engineers working in research and development projects which are important for Community R&D policy. The organization of high-level further training courses, particularly in fields not yet covered by the traditional educational establishments, will therefore receive assistance under the new programme in the form of financial and organizational support. The aim here is to enable the beneficiaries to keep abreast of the latest developments in their field.

In this connection, the agreement concluded between nine Universities and research institutes in seven Member States and the Commission is to be continued ; under this agreement further training courses in the field of molecular biology and radiobiology covering a period of several weeks are held annually.

Advanced courses in data processing and its applications have also been conducted in collaboration with universities, research groups, industry and EDP users in an effort to contribute to the further development of data processing in the Community in the field of training and research. This project is also to be continued.

Possible future research areas for specialized further training courses of this type could include, in particular :

- energy production
- safeguard of environment
- raw materials extraction or recycling

The Commission has allocated a maximum Community financial contribution of 50 % for the overall costs of the further training courses.

In selecting the topics, attention will be given to the avoidance of overlapping with the "Ispra Courses" being organised by the

JRC.

#### 2.2.3.4. Projects involving non-Member States

The Community has concluded agreements with certain non-member countries which include scientific and technical cooperation arrangements and considers it essential in order to implement these agreements that provision should be made for a degree of exchange among the staff involved in the research programmes of the Community and those of non-Member States.

Assuming that Greece will be a member of the Community when the new programme comes into operation, this will apply in particular as regards Portugal and Spain, given the prospect of their joining the Community. It will, however, also apply as regards the COST countries, several Mediterranean countries, the USA and Canada, plus certain countries in Latin America and Asia.

The Commission has therefore planned on the basis that up to 10 % of the funds available for grants under the new programme will be used, depending on the circumstances, to send scientists or engineers either to Community countries or to the appropriate non-member countries.

### 3. Resources

#### 3.1. Staff

The Council Decision of 21 December 1976 gave approval for six posts, in accordance with the following structure :

Head of Department

1 scientist - grade A official

1 scientist - grade B official

1 administrator - grade B official

2 administrators - grade C officials

The Commission considers this staff level satisfactory.

#### 3.2. Appropriations

The upper limit of 4.6 million u.a. allocated in 1976 included a total of 3.846.000 u.a. in operational funds. After the deduction of 900.000 u.a. for the financing of further training courses, this left a total of 2.946.000 u.a. for grants which at the then average grant rate of 6.500 u.a. per year should have made it possible to award 453 man/years in grants.

The grant rates have, however, been increased twice since that time and in total no more than around 320 man/years in grants will have been awarded by the end of the present programme. Present programme

The Commission considers that new research programmes, new types of research activity (concerted action projects) and Greece's accession and taking account of Spain and Portugal in anticipation of their accession justify the award of 430 grant/years during the operation of the programme according to the following scheme :

100 man/years in 1981

105 man/years in 1982

110 man/years in 1983

115 man/years in 1984

In 1980, the average cost per grant/year is ECU 13.100. Taking into account the expected increase until the falling due of the expenditure the Commission needs ECU 7.900.000 for the financing of 430 grant/years (c.f. annexes 2 and 3) plus ECU 2.000.000 for training courses. Taking into account the expenditure for personnel and administration, the Commission therefore proposes to fix the upper limit for expenditure commitments at ECU 11.3 million in accordance with annex 2.

PROPOSAL FOR A COUNCIL DECISION

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adopting a programme for the European Atomic Energy Community and the European Economic Community in the field of scientific and technical training.

THE COUNCIL OF THE EUROPEAN COMMUNITIES

Having regard to the Treaty establishing the European Atomic Energy Community, and in particular Article 7 thereof,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 235 thereof,

Having regard to the proposal from the Commission, submitted after consultation with the Scientific and Technical Committee (CST),

Having regard to the opinion of the European Parliament,

Having regard to the opinion of the Economic and Social Committee,

Whereas the Resolution of the Council of the European Communities of 14 January 1974 on the coordination of national policies and the definition of projects of interest to the Community in the field of science and technology<sup>1</sup> envisages the progressive implementation of a new research and development policy;

Whereas the Treaty establishing the European Atomic Energy Community provides that the research programmes of the European Atomic Energy Community shall be supplemented by a programme in the field of scientific and technical training;

Whereas the Council, seeking the objectives set out in Articles 2 and 3 of the Treaty establishing the European Economic Community, has also adopted research programmes in non-nuclear fields in accordance with the provisions of Article 235 of the Treaty;

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<sup>1</sup>OJ No C 7 of

Whereas a programme of scientific and technical training would appropriately supplement these programmes and thus help in attaining the objective set out in the Treaty,

Whereas the Treaty establishing the EEC does not provide the necessary powers;

Whereas the training of new scientific and technical staff and the development of qualified specialists in the areas covered by the research programmes adopted by the Council is an essential requirement for the progressive implementation by the Community of a common research and development policy;

Whereas the Advisory Committee for Scientific and Technical Training (ACSTT) and the Scientific and Technical Committee (CST) expressed their opinions,

HAS DECIDED AS FOLLOWS :

Article 1

A programme of training as set out in the Annex to this Decision is hereby adopted for a four-year period from 1 January 1981. The Annex forms an integral part of this Decision.

Article 2

The total amount required for the duration of the programme is estimated at 11.3 million European Units of Account as defined in Article 10 of the Financial Regulation of 21 December 1977, and the staff allocation at 6 servants. These figures are merely intended as a guide.

Article 3

The Commission shall be responsible for the implementation of this programme.

ANNEX  
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The programme in the field of scientific and technical training applies to those areas which are the subject of nuclear or non-nuclear Community research programmes. It comprises the following measures :

1. Award of grants for scientific research work at various levels of training (post-graduate dissertations, Ph.D theses, post-doctorate research). The grants are awarded for research work which must be carried out in a Community country other than the applicant's country of origin or country of permanent residence -exception being made for the establishments of the JRC as organ of the Community-. Eligible for these grants are science students, holders of higher education qualifications or doctorates in the various branches of science and engineers -including scientists and engineers working in industry- in principle, from the Member States of the Community.
2. Financing of advanced further training courses in areas of particular importance to the Community's research and development policy.

OPINION BY THE ACSTT ON THE NEW FOUR-YEAR PROGRAMME (1981-1984)

After a thoroughgoing study of the first draft of a proposed scientific and technical training programme for 1981-1984 (doc. ACSTT 6/3) at its meeting held on 15 and 16 November 1979 the ACSTT delivered the following opinion:

- 1) The Committee considers that the programme aims at fostering mobility among young scientists within the Community, thus on a long-term basis helping to create a genuine European Community of scientists and that accordingly there is every reason to proceed with it.
- 2) In the Committee's view, the programme's task is not to compete with grant schemes arranged by other bodies. It should set its sights on achieving specific objectives in the context of the Communities' Research and Development policy. It should enable mainly young research workers from the member States at the beginning of their scientific career to work for not too short a period in a research institute in an other member State.
- 3) The Committee feels that the funds available for the programme must keep pace with the expected rise in the need so that ultimately the amount available should be considerably higher than now proposed, stagnation or even a cut of the programme would not be justifiable as the programme would become inefficient. In this case it would no longer deserve support. The Committee would like to point out that, by comparison, the European Molecular Biology Organization (EMBO) spends 3 million EUA per annum on grants for work done in its specialized field. The European Organization for Nuclear Research (CERN) awards 150 grants every year for work in the field of nuclear physics.
- 4) The Committee does not recommend that grants be awarded to nationals of non-member countries in present circumstances. This was because the funds set aside for the programme were limited so that if money were made available for such grant opportunities within the Community would be restricted disproportionately. If it is felt that the programme must be extended to non-member countries, the Committee considers that the Council should allocate special funds to the programme for this purpose.

OPINION OF THE SCIENTIFIC AND TECHNICAL COMMITTEE

on the Proposal for a programme for 1981-1984

"Scientific and Technical Training"

(Indirect Action)

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In connection with the four-year programme on "Scientific and Technical Training" and its Community value, the Scientific and Technical Committee thinks that, in addition to encouraging a new generation of scientific and technical trainees at all levels, the programme opens up opportunities for young research workers to collaborate in a variety of Community science programmes.

The programme has, therefore, the dual advantage of increasing contacts between corresponding programmes at national and Community level - through the exchange of scientists and engineers - and of being able, in many cases, to contribute to the implementation of Community research programmes through additional scientific support.

The programme represents, an essential contribution to the promotion of research workers and engineers mobility within the Community. Several members of the Committee consider the proposed budget a minimum below which the programme will be ineffective.

The Scientific and Technical Committee therefore delivers a favourable opinion on the proposal from the Commission.

Brussels, 1 February 1980



STATISTICAL DATA ON AWARDED GRANTS  
(Programme 1977-1980, situation on 15.1.1980)

1. Nationality of grantees

	New grants	%	Extensions (1)	total	%	Total man-years	%
B	19	8,74	8	17	10,24	27,67	10,85
D	13	12,62	10	23	13,86	34,33	13,46
DK	2	1,94	0	2	1,20	4,00	1,58
F	9	8,74	6	15	9,04	29,25	11,47
GB	21	20,39	10	31	18,68	44,42	17,42
I	37	35,92	22	59	35,54	84,25	33,04
IRL	1	0,97	3	4	2,41	6,25	2,45
L	2	1,94	1	3	1,81	5,00	1,96
NL	8	7,77	2	10	6,02	17,25	6,76
Others	1	0,97	1	2	1,20	2,58	1,01
Total	103	100	63	166	100	255 (2)	100

(1) of grants awarded during the preceding programme

(2) 36 man years of which correspond to extensions

2. Man years according to working place.

	Man years	%
B	48,75	19,12
(whereof JRC - Geel)	17,75	6,96
D	58,04	11,21
(whereof JRC - K'ruhe)	26,17	10,26
DK	1,0	0,39
F	36,92	14,48
GB	26,5	10,39
I	48,5	19,02
(whereof JRC - Ispra)	44,5	17,45
IRL	---	---
L	---	---
NL	39,25	15,39
(whereof JRC - Petten)	28,75	11,27
Total	255	100

3. Man years according to host department

	Man years	%
JCR Ispra	45,5	17,84
JRC Petten	28,75	11,28
JRC Karlsruhe	31,17	12,22
JRC Geel	17,75	6,96
(Total JRC)	(123,17)	(48,30)
Biology	53,0	20,79
Fusion	29,66	11,63
Environment	28,0	10,98
XII-D-2	10,17	3,99
Energy	10,0	3,92
Others	1,0	0,39
	255	100

4. Total duration of grants

up to one year      64  
 up to two years     44  
 up to three years    56

REPORT ON THE ACTIVITIES IN THE FRAMEWORK OF THE  
AGREEMENT 259-77-1 BIO C

1. Organized courses

- 1977      Universität München, Institut für Genetik, F. KAUDEWITZ  
"Methods of Yeast Genetics" July 25 to August 9  
18 participants from 7 EC Member States, from Austria, USA  
and Switzerland
- 1977      Centre National de la Recherche Scientifique, Centre de Biophysique  
Moléculaire, Orléans, C. HELENE, M. MONSIGNY  
"Structure and Functions of Biological Membranes, Molecular Aspects"  
September 5 to September 23  
28 participants from 8 EC Member States and Switzerland
- 1978      Consiglio Nazionale delle Ricerche, Centro di Biologia Molecolare,  
Rome, R. STROM  
"A Molecular Approach to the Biology of Red Blood Cells"  
September 18 to September 30  
16 participants from 6 EC Member States and from Switzerland
- 1979      Université Libre de Bruxelles, Département de Biologie Moléculaire,  
Rhode-St-Genèse, M. ERRERA and M. RADMAN  
"Fidelity of the Replication and Expression of Genetic Information"  
September 5 to September 25  
28 participants from 6 EC Member States, Switzerland, Iran,  
Yugoslavia, Brazil, Japan and Israël
- 1980      Aarhus Universitet, Institut for Molekylær Biologi og Plantefysiologi,  
O. WESTERGAARD, J.C. LEER and O.F. NIELSEN  
"Organization and Function of Specific Eucaryotic Genes"  
August 17 to August 30  
16 participants

2. Long term grants

During the years 1977 - 1979, 13 one-year grants have been awarded, 6 grants  
have been extended by one year (total 19 grant/years).

3. Short term grants

During the first three years of the validity of the agreement, 32 short term  
grants (1 to 12 weeks) have been awarded.

4. Cumulative budget 1977-1979

Organization of courses	EUA	55.500.-
Long term grants	EUA	178.500.-
Short term grants	EUA	31.000.-
		-----
total	EUA	265.000.-
		=====

CREST - Advanced courses in Informatics

	Title of the course	Type	Venue	Directors	Dates
1977	<ol style="list-style-type: none"> <li>1. Informatics and Medicine.</li> <li>2. Management Information systems</li> <li>3. Operating Systems</li> <li>4. Computer Networks</li> <li>5. The microprocessors and its applications.</li> <li>6. Programming foundations</li> </ol>	<p>A A S S T</p>	<p>Hannover Strafford Munich Dublin Swansea Toulouse</p>	<p>Reichertz/Goos Jackson Bayer/Graham/Seegmüller Harris Aspinall Arsac</p>	<p>14-26 Febr. 11-22 July 28 July-5 Aug. 22 Aug.-2 sept. 5-16 Sept. 5-16 Dec.</p>
1978	<ol style="list-style-type: none"> <li>1. State of the Art and Future Trends in Compilation</li> <li>2. Operating systems (repetition of 1977 course)</li> <li>3. The design of Distributed Processing Systems</li> <li>4. Computing System Reliability</li> <li>5. Foundations of Computer Science</li> </ol>	<p>S S S T</p>	<p>Montpellier Munich Nice Newcastle/Tyne Amsterdam</p>	<p>Boussard Bayer/Graham/Seegmüller Le Lann Randell de Bakker/van Leeuwen</p>	<p>9-20 Janu. 29 March-6 April 26 June-7 July 31 July-11 Aug. 21 Aug.-1 Sept.</p>
1979	<ol style="list-style-type: none"> <li>1. Abstract Software Specifications</li> <li>2. Data Analysis and Informatics</li> <li>3. Trends in Man-Machine Communication</li> <li>4. Management Information Systems (Inf. Systems - Organizational choices - Social values)</li> <li>5. Distributed Data Bases</li> <li>6. Construction of Programmes</li> </ol>	<p>A S S</p>	<p>Copenhagen Fontainebleau Paris Pisa Sheffield Göteborg</p>	<p>Björner/Jones Tomassone Liénard Traversa Druffan McC Keag</p>	<p>22 Jan.-2 Feb. 19-20 March 17-27 April 9-20 April 9-20 July 3-14 Sept.</p>

	Title of the course	Type	Venue	Directors	Dates
P. 2.	7. Analysis and Design of Algorithms in Combinational Optimization 8. Computer Science and Law 9. Programming for Software Sharing 10. Optimization : Techniques and Applications	T A S	Udine Swansea Ispra Bergamo	AusIELLO Niblett Helms Spedicato/Dixon	10-21 Sept. 17-27 Sept. 17-28 Sept. 17-28 Sept.
P. 3.	1. Distributed Systems - Architecture and Implementation 2. Computer aided Production : Means and Technics 3. Computer Aided Design of Digital Systems 4. Optimization, Techniques and Applications 5. Parallel Processors Architectures, Systems and Applications 6. Computer Aided Design 7. Interactive Graphical Man-Machine Communication	A A T A A	Munich Bordeaux Uxbridge Hertford Loughborough Darmstadt Nantes	Paul/Siegert Doumeingts Musgrave Dixon Evans Encarnacao/Lucas Lucas	4-13 March 14-25 April 8-18 June 30 June-11 July 7-19 Sept. Oct.-Nov. Dec.
	1. Design of Numerical Algorithms for Parallel Processing		Varena	Cavalli	

Type : A = Application S = Software Engineering T = Theoretical Informatics



## BUDGET 1981/1984

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Personnel	EUA	1.201.000	*
Administrative costs	EUA	199.000	*
Informatic-courses	EUA	1.200.000	
Agreement BIO C	EUA	700.000	
Reserve for preparation of new courses	EUA	100.000	
Grants	EUA	7.900.000	*
		-----	
	EUA	11.300.000	

\*) see Annex 3



Calculation of the appropriations allocated to grants

In awarding grants following the proposal of the programme (100 grant-years in 1980, 105, 110, 115 in the following years), the schedule of payments for grant-years, from experience, appears in column 2. The rate of increase given in column 4 was indicated in the "circulaire budgétaire" doc. XIX/130/80, until 1983 ; for the following years these figures were extrapolated. The same figures were used for the personnel posts and administrative expenses.

Year	grant-years	cost per grant-year	rate of inflation in relation to preceding year	payment appropriations
1980	---	13.100	---	---
1981	8,08	14.358	9,6	116.013
1982	52,92	15.521	8,1	821.371
1983	88,08	16.778	8,1	1.477.806
1984	106,42	18.137	8,1	1.930.140
1985	102,5	19.606	8,1	2.009.615
1986	53,92	21.194	8,1	1.142.780
1987	17,0	22.911	8,1	389.487
1988	1,08	24.767	8,1	26.748
<b>Total</b>	<b>430</b>			<b>7.913.960</b>

rounded off to 7.900.000

23

FINANCIAL RECORD

relating to the proposal for a programme of  
"Scientific and Technical Training 1981-1984"

1. RELEVANT BUDGET HEADING :

- Number : 3350
- Title : Scientific and Technical Training

1.1. TITLE :

Multiannual programme in the field of scientific and technical training

2. LEGAL BASIS :

Article 7 of the EAEC Treaty  
Article 235 of the EEC Treaty

(Follow-up to the 1977-1980 programme published in O.J. L 10  
of 13/1/1977)

3. DESCRIPTION OF THE PROJECT

3.1. Description

This is a multiannual programme pursuant to previous Council Decisions and is intended to supplement Community research policy by training measures for young scientists and engineers. It is directed to all the areas for which, under the Commission's new research and development policy, scientific programmes have been or will be adopted by the Council, whether or not in the nuclear field. This measure is to supplement the training of specialists in the research sectors concerned.

3.2. Aims

The new programme should make it possible to follow up earlier programmes that have proved their worth. It will, in particular, focus on the following aims :

- to promote, at all training levels, the mobility of scientists working in areas covered by Community research programmes
- to establish contacts, and develop those already established, between scientists working on similar subjects in the context of both national and Community research programmes
- to provide high-level training and further training opportunities in specialized subjects which are not yet included in the programmes of traditional higher education establishments.

4. JUSTIFICATION OF THE PROJECT

The Community research programmes should be supplemented by education and training programmes. This principle was enunciated in the Treaty establishing the EAEC.

The field of application extends to all Council-approved Community research programmes, whether or not in the nuclear field, carried out in the context of direct or indirect actions.

5. FINANCIAL IMPLICATIONS IN RESPECT OF INTERVENTION APPROPRIATIONS (including staff, administrative and technical operating expenses).

5.1. Total cost for the expected duration : 11.300.000·EUA

5.2. Proportion financed from :

- the Community budget 11.300.000 EUA
- national budgets
- other sectors at national level

5.3. Multiannual timetable

5.3.1. Estimated appropriations for commitment (at current prices).

.../...

APPROPRIATIONS FOR COMMITMENT

	1981	1982	1983	1984	TOTAL
Staff	266.000	288.000	311.000	336.000	1.201.000
Administrative expenditure	44.000	47.000	52.000	56.000	199.000
Contracts	2.588.000	2.141.000	2.429.000	2.742.000	9.900.000
Total	2.898.000	2.476.000	2.792.000	3.134.000	11.300.000

APPROPRIATIONS FOR PAYMENT

	1981	1982	1983	1984	1985 & subs. years
Staff	266.000	288.000	311.000	336.000	
Administrative expenditure	44.000	47.000	52.000	56.000	
Contracts	224.000	1.258.000	1.968.000	2.478.000	3.972.000
Total	534.000	1.593.000	2.331.000	2.870.000	3.972.000

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## 5.3.2. Method of calculation

a) Staff expenditure

Requirements have been calculated on the basis of six staff members :

2 category A	at	66.000	EUA/year	in 1981
2 category B	at	42.500	EUA/year	in 1981
2 category C	at	24.500	EUA/year	in 1981

These estimates take account of the expected trend in the remuneration of Commission staff by applying for the years 1981-1984, an increase on 1980 costs corresponding to the rise in the overall price index for the Community used in drawing up the three-year estimates for the same period.

b) Administrative expenditure

Temporary staff	:	15 months/year
Missions	:	15 per year
Meetings	:	5 per year

c) Expenditure on contracts

Grants : 430 men/year 7.9 m EUA

- average cost, 1980 : 13.100 EUA
- 5 % annual increase in number of grants awarded under the programme
- inflation in cost of grants : 9.6 % for 1981 ; 8.1 % for each year from 1982-1985.

Advanced courses :

- BIO C Convention (1 course + 7 grants per year)  
Total commitment 1981 0.7 m EUA
- 60 informatic courses 1.2 m EUA
- courses to be decided on during the programme 0.1 m EUA

The first commitments during the 1981-1984 programme will be entered into by mid-1981, after the spring 1981 selection. The contract for the BIO C Convention will be concluded for four years, and all the related appropriations will therefore have to be committed in 1981. Commitments for the advanced courses in informatics will be entered into proportionately during the years 1981-1984, assuming an inflation rate of 8 % per year. Accordingly, appropriations for payment will be relatively low in 1981, in addition, study grants are generally awarded for two years. This will also affect the appropriations for payment in 1982.

6. FINANCIAL IMPLICATIONS IN RESPECT OF APPROPRIATIONS FOR STAFF AND CURRENT ADMINISTRATIVE EXPENDITURE :

(see point 5 above)

7. FINANCING OF EXPENDITURE :

7.1. Appropriations to be entered under future budgets

8. IMPLICATIONS IN RESPECT OF REVENUE :

- Community tax on officials' remuneration
- Officials' contribution to pension scheme

9. TYPE OF MONITORING TO BE APPLIED :

- Administrative checks by the DG for Financial Control in respect of the implementation of the budget and the proper disbursement of expenditure, and by the DG XII Administration of Contracts Division
- Scientific checks :
  - Advisory Committee on Programme Management
  - Officials of DG XII.