



**Istituto Nazionale di Fisica Nucleare
Bando n. 9777**

**Open Competition for the assignment of 6 research fellowships within the technological
research area
“LHC Computing Grid” project**

THE PRESIDENT

Of the National Institute for Nuclear Physics

- seen art. 51, par. 6, of law 27 dec.1997 n.449, that enables universities, astronomical, astrophysics and vesuviano observatories, Public Bodies and Research Institutions, as for the art. 8 of the Prime Minister command of Dec. 30 1993 n. 593 and later modification and integration, ENEA and ASI, to give fellowships for collaborations to research activities;
- seen the INFN's regulation concerning the assignment of fellowships for collaboration in research activities, approved by the Executive Board (Consiglio Direttivo) n. 6231, on Oct. 30 1998, later modified with action of the same Board n. 7828 of Nov. 29 2002;
- seen the deliberation of the Institute Executive Board (Consiglio Direttivo) on Jan. 31 2003 n.7944:

HAS ORDERED

Art. 1
GENERAL PART

It's called an open competition for qualified candidates to assign 6 fellowships for a four years collaboration in technological research activity, within the “LHC Computing Grid” project, to be partly carried out at CERN in Geneva.

Topics concerning the research activity are listed in enclosed n.1. Each candidate can apply only for one of the mentioned topics.

Copy of the call is available at all INFN sections and at the web site www.ac.infn.it

The fellowships are not combinable with other similar fellowships, nor with incomes from other public or private occupations.

Exception is made for fellowships given by national or international Bodies or by INFN itself, if useful to enhance, through abroad stays, the research activity of the fellowship holder; in this case an authorization by INFN is necessary.

Art. 2 DURATION AND AMOUNT

Each fellowship has a four years duration, subject to annual control by INFN on the development of the research, as regulated by the later mentioned art.13.

The activity will be executed for a maximum of three years period at CERN in Geneva, the remaining time at CNAF, in Bologna.

Each fellowship yearly gross amount is of _ 13.169,65 at net of INFN's burden and will be paid monthly. During the stay at CERN, the fellowship holder will be hired as a "*fellow*" and will receive by CERN, in twelve monthly rates, the annual amount as provided by the CERN fellow contract, reduced of the amount paid by INFN.

During the stay at CNAF, the fellowship holder will benefit of all local services, even the restaurant service, of which all local employees benefit, as provided by the local regulation.

If sent out for working missions related to the development of the research activity, the holder will benefit of all allowances as provided by the regulation of INFN fellowships holders.

Art. 3 ADMISSION REQUISITES

To be admitted to the examination it is necessary to meet the following qualifications:

- a) To be a CERN State Members citizen (Austria, Belgium, Denmark, Finland, France, Germany, Greece, Italy, Norway, Holland, Poland, Portugal, England, Czechoslovak Republic, Slovenian Republic, Spain, Sweden, Switzerland, Hungary) or, alternatively, have completed a five years course of study in one of the mentioned states;
- b) To be not over 33 of age;
- c) To be a laurea degreete with a valid degree for the admission to a research doctorate course in the following: Physics, Engineer, Astronomy, Computing or an equivalent degree, even achieved abroad, and a technical-professional curriculum proving the capability to effectively contribute to a research computing activity and including at least a 30 months period dedicated to professional qualification or a post-laurea degree (post-degree) technological research activity.

All requisites to be admitted must be already possessed when applying (by March 13th) as regulated by later art.4

Examination and evaluation of requisites referred in point c) of this regulation is up to the unappealable decision of the commission as detailed in art. 5.

It's furthermore requested a good knowledge of the English language, which will be evaluated during the oral examination.

Art. 4 TERMS AND DEAD LINE FOR APPLYING

Applications to be admitted to the examination, filled in simple paper, following the attached scheme (encl. n. 2), *duly signed by the applier*, must be sent by registered mail to INFN –

Direzione Affari del Personale, Ufficio Borse di Studio e Assegni di Ricerca – Casella Postale 56 – 00044 Frascati (Roma) *by and not after March 13th, 2003.*

Should the dead line be in coincidence with a holiday, it is to be intended as the first working day immediately following.

Application received with no signature and after the deadline will not be taken into consideration.

So will all those received by any other means than registered mail; the postal office stamp gives validation of date where the application is mailed.

Under the applicant responsibility, applications preferably typewritten, should report:

- Last and first name;
- Date and place of birth
- Place of residence
- Fiscal code
- Citizenship
- Other citizenship
- Statement of no penal convictions, or, if the case, specifying the type of penal conviction received;
- Position regarding the military service;
- Possession of degree requested by this call, specifying date and place of achievement of it;
- Titles possession among those listed in the art. n. 5.

Candidates must also indicate in the application:

- One of the chosen research topics among those listed in the enclosed n.1;
- The total number of enclosed works, thesis of laurea degree included, if necessary;
- Address where it's preferred to receive all communications regarding this call, if different from the one of residence.

Candidates must also enclose to each application:

1. Laurea degree certificate indicating the votes (or equivalent classification) reported for each exam and for the final one, together with the date when this was taken;
2. Technical-professional curriculum suited for the research activity, if it has required at least 30 months of professional experience or technological research post-laurea degree, with the list of publications where occurs.

Candidates who are not any CERN State Members citizen, but have completed a five years course of study in any of them, may attach to the application a document demonstrating the possess of this requisite, valid for the admission to the exam.

For a complete and better evaluation of all titles, candidates may attach to the application all documents, titles and publications that may be considered useful to the case.

All certificates, in simple paper, must be enclosed in original or in authenticated photocopy; authentication of the photocopy may be replaced with a substitutive declaration of "attested affidavit" proving the conformity of the copy to the original as for art.4 law 4.1.68 n. 15, modified by art. 3, par. 10, law 15.5.97 n. 127 and by art. 2 D.P.R. 20.10.98 n. 403 as shown in the enclosed scheme n. 4

Same documents may be substituted by a substitutive declaration as for art. 2 law 4.1.68 n. 15 modified by art. 3 par. 10 law 15.5.97 n. 127 and by art. 1 D.P.R. 20.10.98 n. 403 as shown in the enclosed scheme n. 3

Enclosed documents in simple paper, regarding titles and publications, must be exhibited in original or in authenticated photocopy; authentication of the photocopy may be replaced with a substitutive declaration of "attested affidavit" proving the conformity of the copy to the original, as shown in the enclosed scheme n. 4

Candidates may, furthermore, demonstrate possession of titles by utilizing the substitutive declaration of certificates as in enclosed n. 3

Candidates, who present the substitutive declaration of certificates and the substitutive declaration of "attested affidavit", must attach to the application a non-authenticated photocopy of a valid identification document.

Each application, together with all enclosed documents, must be mailed in a single envelope on which it has to be clearly visible the name, surname and address of the candidate and the code number of the call for which he/she is applying.

Applications, documents and titles sent to INFN after the date indicated at first paragraph of this article, will not be taken into consideration, neither those that, by the dead-line, will not have the required documentation. Furthermore, it is not allowed after the deadline, to substitute titles and documents already exhibited, even if the case is that to replace drafts or notes with final prints.

Art. 5 COMMISSION OF EXAMINATION, VOTES AND TITLES

The commission of examination, designated by the INFN President, is composed of three members, one of them designated by CERN; it will meet soon after the deadline for application.

The commission has 100 marks to be so distributed:

- 40 marks for titles;
- 60 marks for the oral examination.

evaluation of titles is done before the oral examination

valuable titles are:

- vote of laurea degree;
- professional experience or technological research activity with private or public Bodies, with contracts, fellowships or other, either in Italy or abroad;
- post-laurea degree specializing courses, either in Italy or abroad;
- publication.

Criteria for the evaluation of titles must be decided by the commission before seeing the titles themselves.

The oral examination will concern general subjects regarding the topic chosen when applying, the previous related experiences and the exhibited publications, when they occur.

The oral examination will not be considered passed if the candidate does not obtain a mark of at least 42/60.

The global evaluation is given by the sum of the marks obtained for titles and those for the oral examination.

Art. 6
ORAL EXAMINATION AGENDA AND IDENTIFICATION DOCUMENT

Date and place of the oral examination will be communicated by letter to all candidates admitted to participate, at least 20 days earlier the date of the oral examination.

INFN does not assume any responsibility for possible delays or postal slip-ups of the communications to the candidates, neither for the impossibility of delivering the communication to a candidate due to changes of address of which the application office has not been duly informed on time.

In order to be admitted to the oral examination, candidates must exhibit a valid identification document.

Candidates not able to exhibit any or a valid document, will not be admitted to the exam.

Art. 7
LIST OF MERIT

At the end of the oral examination, the commission draws up the minutes and a report with a specific assessment on each candidate participating to the oral examination, with the relevant classification.

In the classification are enclosed, ordered according to the reported mark, only the candidates who have passed the examination and have obtained a global mark not inferior to 70/100.

In case of equal votes, the priority in the list will be given to:

- The candidate with the highest laurea degree vote;
- The candidate with the highest oral examination vote.

Art. 8
APPROVAL OF THE MERIT LIST

Candidates listed within the number of fellowships to be assigned, will be considered winners.

The list will be approved by the Executive Board (Giunta Esecutiva) of INFN and posted in all the relevant places.

Art. 9
USE OF THE MERIT LIST

Winner candidates will receive a communication regarding the results of the examination and will have to reply by fax within 15 days since the receiving of it, a declaration of acceptance of the fellowship, according to the regulations indicated in art. 1, chap. 4 – or of renunciation of it.

In case of renunciation as described in art. 10, or of rescission of the contract as in artt. 11 and 13, the fellowship can be given to the candidate immediately entitled in the merit list.

For the purpose of the previous chapter, the merit list has a 12 months validity since the date of the final approval by the Executive Board (Giunta Esecutiva) of INFN.

Art. 10
DRAW UP OF THE CONTRACT

Winner candidates will receive the fellowship through the drawing of an autonomous working contract within 60 days since the date of the examination results communication; as far as fiscal concerning there will be applied all dispositions given by art. 4 law 13 aug. 1984 n. 476 and later modifications and integrations, and, as far as social security concerns, there will be applied all dispositions given by art. 2, par. 26 and following of law 8 aug. 1995 n. 335 and later modifications and integrations.

The activity must begin within 30 days from the drawing, except for motivated reasons considered valid by INFN.

In the case of a drawing not stipulated according with the regulations, winners have to be considered as renouncers; if fellowship winners fail to begin the activity by the decided date, the contract is, by law, automatically withdrawn.

Art. 11
FELLOWSHIP HOLDER DUTIES

Each fellowship holder activity is carried out under the guide and supervision of the research project or experiment's manager, for whose activity the fellowship has been granted.

The fellowship holder must:

- Begin the activity at the place and on the date indicated in the contract;
- Continue it regularly and with no interruptions for all time long indicated in the contract;
- Observe all internal rules of the Institution where the fellowship is held and follow all policies and instructions given by the responsible manager as already said in the first paragraph of this article;
- Execute the activity for a minimum 2 years and maximum 3 years period at CERN in Geneva with a *fellow* contract.

If the fellowship holder, once begun the activity, does not continue it regularly and without interruptions, with no justified reasons, or becomes responsible of severe and numerous deficiencies, or, appears to be not sufficiently capable to perform the technological research requested, the contract can be rescinded, with a motivated action of INFN President.

The action is moved following the suggestions of the director leading the Institution where the fellowship holder is carrying out his activity and previous a direct contact with the interested person.

Delays and interruptions of the activity can be justified only by severe health impediment or similar, which have to be duly proved.

Art. 12

The collaborating activity to the technological development must be done within the topic area indicated in the contract and for the whole duration of the contract.

Exceptionally, following an accurate report of the manager (art.11), and the favorable opinion of the relevant Institution director, the INFN President can, with a motivating declaration, allow to continue the research in a different topic area.

Art. 13

Every year the fellowship holder must send to the INFN President a report on the activity carried out that far, together with the relevant opinion drawn by the responsible (art.11).

In the case of a not favorable opinion or of the absence of the report and of the manager's opinion, the contract may be withdrawn according to the regulations of the same article.

At the end of the entire research activity, the fellowship holder must send to the INFN President a final report on the whole activity executed, together with the relevant opinion of the manager (art. 11)

Art. 14

PRIVATE AND PERSONAL DATA MANAGEMENT

As for the article 10, par. 1 law 31 Dec. 1996, n. 675, private personal data given by the candidates will be kept by INFN for purposes concerning the call and the execution of the examination only.

The exhibition of such data is indispensable for the evaluation of requisites to be admitted to the examination itself, thus absolutely necessary in order not to be rejected.

The candidate is guaranteed by the rights of art. 13 of the above mentioned law, among which there is that to have access to all personal data, and other complementary rights such as that of modifying, updating, completing or deleting wrong, incomplete or not legally treated data, included the right to prohibit, for legal motivated reasons, their treatment.

The President
(prof. Enzo Iarocci)

date: February 11th 2003

Enclosed n. 1

LIST OF RESEARCH TOPICS

1. Development and experimentation of net technologies, new application oriented.
2. Study and experimentation of computational grids and of data for future Physics experiments computing.
3. Physics experiments database handling.
4. Internet applications for computing and access to large amount of data.
5. Applications development for Physics experiments.
6. Development of management tools for applications.
7. Large scale data processing.
8. New architectures for net distributed applications.
9. Nets and computers security.

APPLICATION FORM

To
Istituto Nazionale di Fisica Nucleare
Amministrazione Centrale
Direzione Affari del Personale
Ufficio Borse di Studio e Assegni di Ricerca
Casella Postale 56
00044 Frascati (Roma)

Subject: call n. 9777/2003 – for 6 fellowships for technological research activity

The undersigned (name) _____ (surname) _____ born at
_____(Province _____) on _____ resident
in _____ address _____ fiscal code n. _____
_____ applies to be admitted to the competition n. _____ for
a fellowship of research activity in the following topic:
Subject: _____.

For the purpose declares, under his/her own responsibility:

- To be a _____ citizen
 - Not to hold any penal conviction (if yes, please indicate the kind);
 - To be, regarding the military service, in the following position: _____
 - To have a research doctorate title in _____
 - achieved on _____ at the University of _____
 - To have a laurea degree diploma in _____ achieved on _____ at
the University of _____
 - To possess the following titles:
-
-
-

Encloses n. _____ of works, of which:

- n. _____ published, of which, in collaboration n. _____
- n. _____ not published, of which, in collaboration n. _____

Encloses, also, the following documents:

It is preferred to receive all communications regarding the competition to the following address:

Address _____
City _____
Postal code _____
Tel. _____
e-mail _____
date _____

Signature
(complete and readable)

SUBSTITUTIVE DECLARATION OF CERTIFICATES

(art. 2 law 4.1.68 n. 15, modified by art. 3, par. 10 law 15.5.97 n. 127 e by art. 1 D.P.R. 20.10.98 n. 403)

The undersigned _____ born in _____ province
_____ on _____ resident
in _____ address _____ n. _____

aware of all penal responsibilities into which he/she may occur in case of false or not true declaration (art. 26 law 4.1.68 n. 15)

DECLARES

- To have the following title _____ achieved on _____
at _____ with vote _____
- To have passed the following exams:
_____ on _____ vote _____
_____ on _____ vote _____
_____ on _____ vote _____
_____ on _____ vote _____

- to have a title of research doctorate in _____ achieved
on _____ at _____

or

- to be attending the _____ year of the course for research doctorate in _____ at
_____ from _____ and to have already attended
_____ years of the course
- to have the following specialized title or the certificate of attendance to the post laurea
degree specializing course _____ achieved on _____ at
_____ with vote _____.

Date _____

The declarant (1)
(complete and readable)

1) the declarant must send the declaration together with the photocopy of a valid identity document.

SUBSTITUTIVE DECLARATION OF THE "ATTESTED AFFIDAVIT"
(art. 4 law 4.1.68 n. 15, modified by art. 3 par. 10 law 15.5.97 n. 127 and by art. 2 D.P.R. 20.10.98 n. 403)

The undersigned _____ born at
_____(Province _____) on _____ resident
in _____ address _____ n. _____

aware of all penal responsibilities into which he/she may occur in case of false or not true
declaration (art. 26 law 4.1.68 n. 15)

DECLARES

For illustrative purposes only, here are listed some examples of sentences suggested to be used:

That the copy of the enclosed laurea degree certificate consisting of n. ___ of sheets is conformal
to the original;

That the copy of the following title or document or publication _____ consisting of n.
_____ of sheets is conformal to the original.

Date _____

The declarant (1)
(complete and readable)

1) the declarant must send the declaration together with the photocopy of a valid identity
document.