

Bando di concorso a n. 10 borse di ricerca
post-doc INdAM-COFUND
“INdAM Fellowships in Mathematics and/or
Applications for experienced researchers
cofunded by Marie Curie actions”

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1 Borse INdAM-Cofund

L'Istituto Nazionale di Alta Matematica "Francesco Severi", nell'ambito del progetto europeo INdAM-Cofund, bandisce un concorso a n. 10 borse di ricerca post-dottorali, suddivise in n. 5 borse di tipo *outgoing*, n. 4 borse di tipo *incoming* e n. 1 borsa di tipo *reintegration*.

Le borse hanno durata biennale.

Le borse di tipo *outgoing* consistono in una fase iniziale della durata di 18 mesi da trascorrere presso una Istituzione ubicata all'estero, seguite da un'ulteriore fase di rientro della durata di 6 mesi da trascorrere presso una Istituzione ubicata in Italia.

Le borse di tipo *incoming* o *reintegration* hanno durata di 24 mesi, da trascorrere presso una Istituzione ubicata in Italia.

Le Istituzioni, scelte dai candidati, possono essere un ente pubblico (Università, ente di ricerca, ente pubblico economico o non economico. . .) o un ente privato (incluse le imprese).

Dal momento del conferimento della borsa, i vincitori hanno diritto al titolo di borsista Marie Curie (*Marie Curie fellow*) dell'Istituto Nazionale di Alta Matematica.

I borsisti sono tenuti a farne menzione in tutte le pubblicazioni scientifiche che riguardano l'attività di ricerca svolta durante il periodo di godimento della borsa, con la dizione "titolare di una Borsa Marie Curie dell'Istituto Nazionale di Alta Matematica".

2 Condizioni di partecipazione

I cittadini non italiani che abbiano avuto in Italia la propria residenza legale e la propria attività principale (studio, lavoro, etc.) per almeno tre dei quattro anni precedenti la scadenza per la presentazione della domanda, sono considerati come assimilati ai cittadini italiani (cfr. il concetto di nazionalità assimilata) ai fini del presente bando. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

2.1 Condizioni per le borse di tipo *outgoing*

I candidati per le borse di tipo *outgoing* devono essere cittadini italiani o assimilati e non devono aver risieduto o svolto la propria attività principale nel Paese prescelto per l'attività oggetto della borsa per più di 12 mesi nei tre anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

2.2 Condizioni per le borse di tipo *incoming*

I candidati per le borse di tipo *incoming* devono essere cittadini di uno Stato membro dell'Unione Europea diverso dall'Italia, di uno Stato associato, oppure di uno Stato terzo, i quali non abbiano avuto residenza in Italia né svolto la loro principale attività (studio, lavoro, etc.) in Italia per più di 12 mesi nei tre anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni, quali ad esempio le vacanze.

2.3 Condizioni per le borse di tipo *reintegration*

I candidati per le borse di tipo *reintegration* devono essere cittadini italiani che abbiano svolto ricerca in un Paese terzo per almeno 3 anni nei 4 anni precedenti la scadenza per la presentazione della domanda. Non si considerano brevi soggiorni quali ad esempio le vacanze.

2.4 Condizioni generali

Per poter partecipare al concorso, il candidato dovrà soddisfare, nel giorno di scadenza per la presentazione della domanda, almeno una delle seguenti condizioni:

1. essere in possesso di un titolo di Dottorato di Ricerca, indipendentemente dal tempo impiegato per il conseguimento;
2. avere effettuato attività di ricerca a tempo pieno per quattro anni o periodo equivalente, incluso il periodo di avviamento alla ricerca, in un periodo di tempo successivo al conseguimento del titolo di studio richiesto per l'accesso al Dottorato di Ricerca nel paese in cui tale titolo è stato conseguito, o nel paese prescelto per lo svolgimento delle attività oggetto della domanda (indipendentemente dal fatto che fosse previsto il conseguimento del Dottorato di Ricerca).

È esclusa la partecipazione al concorso di candidati che alla data di scadenza del presente bando risultino professori ordinari, professori associati o ricercatori presso università italiane, ricercatori degli Enti pubblici di ricerca o professori di università straniere con posizioni a tempo indeterminato ("tenured positions"). È inoltre esclusa la partecipazione al concorso dei vincitori di una borsa INdAM-Cofund assegnata tramite uno dei bandi precedenti.

Il candidato non potrà presentare domanda per più di una borsa tra quelle offerte nel presente bando.

3 Condizioni dell'assunzione

Le condizioni dell'assunzione dei borsisti sono quelle indicate nell'Annex 1 del Contratto INdAM-Cofund, paragrafo B.2 "Management of the programme", 2.1 "Appointment conditions of selected fellows", così come riportato nell'Allegato 2.

L'importo totale della borsa è la somma delle seguenti componenti:

- un importo, composto dalla *living allowance* e dalla *mobility allowance*, che verrà erogato al borsista. Non è prevista *mobility allowance* per le borse *outgoing* durante la fase di rientro. La *mobility allowance* è prevista solo per i casi di mobilità transnazionale del ricercatore, e precisamente:

- 600 EUR/mese, per i borsisti di tipo *outgoing* durante la fase iniziale, e per i borsisti di tipo *incoming*;
- 450 EUR/mese, per i borsisti di tipo *reintegration*.

- un importo, composto dalla *travel allowance*, che verrà erogato direttamente al borsista quale rimborso delle spese di viaggio, fino a un massimo indicato in tabella.

Come nella Tabella 3.2 dell'Annex 3 del People Work Programme 2008, l'ammontare della *travel allowance* è determinato in funzione della distanza in linea d'aria tra la località di provenienza del ricercatore e l'istituzione ospitante. I borsisti di tipo *reintegration* hanno diritto a una *travel allowance*, mentre i borsisti di tipo *incoming* e *outgoing* hanno diritto a due *travel allowance*.

- oneri assicurativi, che verranno sostenuti dall'INdAM per conto del borsista, a copertura di infortuni sul lavoro, malattie professionali e invalidità;
- un contributo al costo della ricerca (RCC1) che verrà erogato dall'INdAM all'istituzione ospite nell'interesse del borsista; l'importo è pari a 5400 EUR/anno (450 EUR/mese) per i borsisti di tipo *outgoing* durante i 18 mesi della fase iniziale, ed a 4200 EUR/anno (350 EUR/mese) sia per i borsisti di tipo *outgoing* durante la fase di rientro che per i borsisti di tipo *incoming* o *reintegration*.
- un contributo al costo della ricerca (RCC2) che verrà erogato dall'INdAM direttamente al borsista, quale rimborso di: spese per l'acquisto diretto di materiale (escluso hardware) o beni di consumo necessari per la ricerca; spese di viaggio, vitto e alloggio per la partecipazione a eventi scientifici.

Gli importi annuali di ciascuna componente per i diversi tipi di borsa sono descritti nella Tabella 1 e sono precisati nell'Allegato 4. Gli importi totali effettivi potranno differire da quelli riportati in tabella nelle voci "travel allowances" e "oneri assicurativi", in quanto gli importi tabellari sono quelli massimi per le "travel allowances" e presunti per gli oneri assicurativi.

L'importo indicato in tabella per la *travel allowance* delle borse di tipo *reintegration* è la media annua dell'importo massimo; resta inteso che l'unica *travel allowance* sarà versata in un'unica soluzione.

<i>Componente</i>	<i>Outgoing</i>	<i>Incoming</i>	<i>Reintegration</i>
Living allowance (EUR/anno)	28500	28500	28500
Mobility allowance (EUR/anno)	[*] 5400	7200	5400
Travel allowance (EUR/anno)	[**] 1000	[**] 1500	[**] 750
Oneri assicurativi (EUR/anno)	[***] 1000	[***] 1000	[***] 1000
Research Cost Contribution 1 (EUR/anno)	[*] 5100	4200	4200
Research Cost Contribution 2 (EUR/anno)	1500	1500	1500
Totale (EUR)	[*] 42500	43900	41350

Tabella 1: Importo delle componenti della borsa ([*] = importo medio annuo; [**] = importo massimo; [***] = importo presunto)

La liquidazione dell'importo della borsa avverrà in rate mensili posticipate. Sono ammessi rimborsi delle missioni scientifiche svolte nell'ambito delle attività dei Gruppi Nazionali di Ricerca Matematica. Ai vincitori della borsa è garantita l'iscrizione ai Gruppi Nazionali di Ricerca, anche in deroga ai termini previsti.

4 Presentazione domanda

Le domande dovranno essere presentate entro le ore 17:00 del giorno 15 maggio 2012, fuso orario di Roma, mediante una apposita modulistica elettronica predisposta all'interno del sito internet dell'INdAM

<http://cofund.altamatematica.it>

All'atto della domanda il candidato dovrà, a pena di esclusione dal concorso, compilare tutte le schede previste e allegare i documenti richiesti.

5 Procedure di Valutazione

Le procedure di valutazione sono quelle indicate nell'Allegato 1.

La graduatoria dei vincitori è costituita dai candidati che risulteranno compresi entro il numero delle borse messe a concorso. Le borse che si rendessero disponibili per rinuncia o decadenza dei vincitori, o per altro motivo, potranno essere assegnate ai candidati risultati idonei nell'ordine della graduatoria. La graduatoria resterà valida per 30 giorni a partire dalla data di affissione all'albo dell'Istituto dell'esito del concorso, e comunque non oltre il 20 settembre 2012.

6 Esito

L'esito del concorso sarà notificato ai candidati che risulteranno nella graduatoria dei vincitori e sarà affisso all'albo dell'Istituto.

7 Conferimento

Le borse sono conferite con provvedimento del Presidente dell'INdAM. Entro 5 giorni dalla data del ricevimento della comunicazione per posta elettronica certificata attestante l'esito del concorso, i vincitori dovranno far pervenire all'Istituto Nazionale di Alta Matematica "F. Severi", P.le Aldo Moro, 5 (Città Universitaria) – 00185 ROMA, una dichiarazione scritta di accettazione della borsa alle condizioni comunicate.

La comunicazione deve essere trasmessa per raccomandata oppure a mano con ricevuta di consegna. Il mancato ricevimento da parte dell'Istituto di tale dichiarazione entro i termini stabiliti implicherà automaticamente la rinuncia alla borsa.

Con detta dichiarazione i vincitori dovranno dare esplicita assicurazione, sotto la propria personale responsabilità, che non usufruiranno durante tutto il periodo della borsa di altre borse di studio o analoghi assegni o sovvenzioni, e che non percepiranno stipendi o retribuzioni di qualsiasi natura. Tale conferimento sarà contestualmente comunicato al/ai responsabile/i della/e/ Struttura/e ospitante/i. Per i vincitori del concorso, al momento dell'accettazione del conferimento, dovranno essere allegati i seguenti documenti:

1. certificato di residenza in carta libera o autocertificazione sostitutiva;
2. certificato di conseguimento del titolo di Dottore di Ricerca, o documentazione comprovante i requisiti di quattro anni di attività di ricerca a tempo pieno o periodo equivalente.

8 Obblighi del titolare

Il titolare della borsa dovrà :

- prendere servizio entro la data indicata nella lettera di conferimento;
- svolgere regolarmente e con assiduità le ricerche presso la sede/le sedi richiesta/richieste all'atto della domanda, in particolare presenziando con regolarità agli eventi scientifici che vi si svolgono;
- consegnare al Presidente dell'INdAM, entro il tredicesimo mese dall'inizio della presa di servizio, una relazione sulle attività svolte il primo anno.

I borsisti, pur essendo tenuti a partecipare ad alcune iniziative dell'Istituto Nazionale di Alta Matematica, svolgeranno la loro attività di ricerca in piena autonomia e senza orario di lavoro predeterminato, nella/e sede/i prescelta/e.

Le borse non sono cumulabili con stipendi o retribuzioni di qualsiasi natura. A nessun titolo potranno essere attribuiti all'assegnatario ulteriori compensi o contributi di qualsiasi natura che facciano carico all'Istituto, salvo quanto previsto dall'Allegato 3.

8.1 Missioni

In linea generale, il progetto dovrà svolgersi presso le strutture delle organizzazioni ospite, così come previsto dalla tipologia di borsa corrispondente. In alcuni casi tuttavia può essere giustificato come parte della collaborazione che il borsista svolga un periodo di missione in un luogo diverso.

I ricercatori non possono trascorrere più del 30% del periodo di durata della borsa lontano dalla organizzazione ospitante, o dalla organizzazione partner nella fase iniziale di una borsa di tipo *outgoing*, a meno che tale missione non sia indispensabile per l'esecuzione del progetto e non sia stata esplicitamente prevista nella domanda.

Nel caso in cui tali missioni non siano state previste nella domanda, occorre richiedere l'autorizzazione in anticipo fornendo adeguate motivazioni. La richiesta dovrà considerarsi autorizzata solo dopo il ricevimento dell'autorizzazione scritta da parte del Presidente dell'INdAM.

Un'eccezione a questa regola riguarda missioni di breve durata (massimo 10 giorni lavorativi per missione), per le quali non è necessario richiedere l'autorizzazione dell'INdAM, a condizione che tali missioni non superino cumulativamente il 10% della durata del progetto.

8.2 Interruzioni o sospensioni del progetto

L'INdAM deve essere informato immediatamente di interruzioni nella permanenza del borsista presso l'istituzione ospitante, e dovranno essere fornite giustificazioni appropriate.

Eventuali sospensioni della borsa potranno essere decretate, in casi eccezionali, dal Presidente dell'INdAM, su richiesta del borsista, sentito il Consiglio di Amministrazione dell'Istituto.

9 Piano di attività dei borsisti

Ciascun borsista è tenuto a svolgere il proprio piano di attività nella versione presentata all'atto della domanda, secondo le indicazioni contenute nell'Annex 1 del Contratto INdAM-Cofund, paragrafo B.3 "Relevance and Impact to Life-long training and Career development", 3.3 "Career development support to fellows", così come riportato nell'Allegato 3.

10 Inadempienze e cessazione della borsa

In caso di inadempienze da parte del titolare della borsa o di assenza non autorizzata dalla sede, il Presidente dell'INdAM potrà inviare una lettera di richiamo, accompag-

nata eventualmente da una sanzione amministrativa pari al più ad una mensilità della borsa. Nel caso di gravi inadempienze, oppure di inadempienze successive all'invio di lettera di richiamo, il Presidente disporrà la cessazione anticipata della borsa, sentito il Consiglio di Amministrazione dell'Istituto.

11 Sospensione temporanea per particolari motivi

Il godimento della borsa di studio e di ricerca può essere sospeso in via temporanea nel caso che il suo titolare debba assentarsi per gravidanza e puerperio, per malattia di durata superiore ad un mese o per altro grave motivo.

12 Norme di rinvio

Per quanto non esplicitamente sopra menzionato, è valido quanto previsto dagli allegati 1, 2, 3, 4 i quali costituiscono parte integrante del presente bando.

Allegato 1

Selection process for the fellows under the programme

1 Transparency of the selection process for the fellows under the programme

The calls for the fellowships of the programme are announced on the INdAM website, and are promoted and advertised through the main international websites dedicated to the research and training programmes in mathematics and/or its applications.

A Guide for applicants, available on the INdAM web page, provides the essential information for submitting a proposal to each call.

Applicants must consult these documents. The Guide also contains indicative timetable for each call including expected time for evaluation of proposals and for sending scheduled communications letters to applicants. The Guide gives all details on headings, subheadings, scores, thresholds of evaluation criteria.

Shortly after the call deadline, the INdAM sends an acknowledgement of receipt to the email address of the candidate given in the submitted proposal.

Eligibility criteria for each proposal are checked by the INdAM staff before the evaluation begins. Proposals which do not fulfil eligibility criteria are not included in the evaluation. The topic of these proposals which satisfy eligibility criteria is then checked by the Panel (see Paragraph 2 below); eligible proposals are those that pass both checks.

If the candidate proposal is non eligible, the INdAM staff sends her/him a letter informing her/him of the rejection of the proposal and containing the reasons for the decision.

All eligible proposals are evaluated by independent referees. The evaluation criteria and procedure are described later on (see in particular Paragraph 3 below).

Soon after the completion of the evaluation by the referees, each applicant receives a letter containing initial information on the results of the evaluation, including the scores and the comments of the referees. She/he is informed that a redress procedure is available.

The redress procedure is concerned with how the proposal was handled in the evaluation and eligibility-checking process. It is not an automatic re-evaluation; the judgement of appropriately qualified experts is not called into question.

Once the applicant has received the letter containing initial information showing the outcome of the evaluation by experts of her/his proposal or the results of the eligibility checks, he may submit a request for redress if he feels that there has been a shortcoming in the way her/his proposal has been evaluated that may affect the final decision on whether to fund it or not, or if he believes that the results of the eligibility checks are incorrect.

The redress requests are examined by a Redress Committee appointed by the Consiglio di Amministrazione (Board of Directors) of INdAM, after consulting the Consiglio Scientifico (Scientific Council) of INdAM.

The committee's role is to ensure a coherent interpretation of such requests, and equal treatment of

applicants.

Requests must:

- be related to the evaluation process, or eligibility checks ;
- include a clear description of the grounds for complaint;
- be received within the time limit specified on the letter(s).

The Redress Committee reviews the case and recommends an appropriate course of action to the Consiglio di Amministrazione. On the basis of the recommendations of the Redress Committee, the Consiglio di Amministrazione decides whether to dismiss the redress request or to take appropriate actions. The candidate is promptly informed of the decision of the Consiglio di Amministrazione. In case there is clear evidence of a shortcoming in evaluation procedure that could affect funding decisions, the Consiglio di Amministrazione may dispose that the Panel enacts a new evaluation procedure for all or part of the proposal.

At the end of the procedure each applicant receives a communication containing the final ranking and the comments of the Panel in charge of the final decision.

Official letters are then sent to the successful candidates, informing them of the conditions, the rules and the obligations regarding the fellowships.

2 Composition and organisation of selection committees

The selection committee in charge of the final decision is a Panel appointed by the Consiglio di Amministrazione of INdAM, after consulting the Consiglio Scientifico, according to the following guidelines:

- The composition of the Panel must ensure:
 - A high level of expertise
 - An appropriate range of competencies in mathematics and/or its applications
 - One or more representatives of private organisations
 - A gender balance (at least one third)
 - One or more non-national experts
 - Each Panel is in charge only for one call.
- The composition of the Panel must avoid any possible conflict of interests.

In constituting the Panel, the Consiglio di Amministrazione also takes account of their abilities to appreciate the industrial and/or societal dimension of the proposals. Members of the Panel must also have the appropriate language skills required for the proposals to be evaluated.

The Panel establishes a list of national and international experts (referees) sufficiently ample to cover all the fields of interest for the calls. The list is drawn up to ensure:

- A high level of expertise
- An appropriate range of competencies in mathematics and/or its applications
- A reasonable gender balance (at least one third)
- A reasonable balance of national and non-national experts.
- Regular rotation of experts.

In constituting the lists of experts, the Panel also takes account of their abilities to appreciate the industrial and/or societal dimension of the applicant proposals.

The Scientific Council of INdAM and each Panel may at any time include in the database any

individual with the appropriate skills.

The Panel allocates each proposal to two referees, taking account of the fields of the candidate proposals and avoiding conflicts of interest.

The selection committee in charge of the final decision of each Call is the Panel appointed by the Consiglio di Amministrazione of INdAM according to the above mentioned rules.

The final judgement of merit determined by the Panel is binding and non-negotiable.

Eligibility criteria for each proposal are checked first by the INdAM staff, before the evaluation begins. Proposals which do not fulfil eligibility criteria are not included in the evaluation.

Each proposal which satisfies the eligibility criteria is then checked by the Panel, which determines whether the topic of the proposal is compatibile with the scope of the INdAM-Cofund fellowships. This second check determines the list of eligible proposals.

The Panel allocates each eligible proposal to two referees from the list, taking account of the fields of expertise of them, and avoiding conflicts of interest. Each proposal is assessed independently by the two referees. The proposal will be evaluated against pre-determined evaluation criteria. In case of strongly different opinions between the two referees, the Panel can allocate the proposal to a third referee; this is always the case when the scores given by the two referees differ by more than 1 (i.e. 20 per cent of the maximum possible score), provided that the proposal passes all the thresholds for at least one of the two referees.

The main task of the Panel is to establish a ranked list of the proposals which passed all evaluation thresholds.

The tasks of the Panel also include:

- Deciding a priority order for proposals with the same score.

The Panel final report should record:

- A list of proposals passing all thresholds, along with a final score for each proposal passing the thresholds and the Panel priority order.
- A list of evaluated proposals having failed one or more thresholds
- A list of any proposals having been found ineligible during the evaluation by experts
- A summary of any the deliberations of the Panel
- In case the percentage of successful candidates of a gender is less than one half of the percentage of the candidates of the same gender, the selection Panel mentions and if possible gives some explanation of such large difference in the final report.

The successful candidates are those who enter within the number of offered fellowships.

In case for any reason one or more of the successful candidates withdraw, they are replaced by the candidates in a reserve list (the list of proposals having passed all thresholds), following the Panel priority order. Each Call contains information about the time of validity of the reserve list.

In order to avoid conflicts of interests, the experts in the list of referees are chosen excluding

- a) experts who are members of one of the institutions chosen as a host institution in one of the proposals they are evaluating;
- b) experts who had relevant scientific collaborations with one of the candidates they are

- evaluating;
- c) experts who are research directors, administrators, managers, and /or owners, even with minority stakes, of foundations, public institutions or private companies which participate to the programme as host institutions;
 - d) experts having family or relative ties or connections with the candidates they are evaluating.

All the rules provided for by the Italian laws apply.

Under the terms of the appointment letter, referees must declare beforehand any known conflicts of interest, and must immediately inform the Panel, which takes whatever action is necessary to remove any conflict.

3 Criteria and method of judging merit

The first part of the evaluation is the individual evaluation of proposals by the referees. Each proposal is first assessed independently by two referees, chosen by the Panel from the list of referees taking part in this evaluation. This part may be carried out on the premises of the experts concerned ("remotely").

At the beginning of the evaluation, experts are briefed by the Panel, covering the evaluation procedure, the experts' responsibilities, and other relevant material.

The proposal is evaluated against pre-determined evaluation criteria.

The evaluation criteria are modelled on the corresponding Marie Curie Actions, as set out in the People Work programme, so that they take into account in a natural way diverse knowledge and qualifications: five criteria, each of them containing subcriteria. Evaluation scores are given for each of the five criteria, and not for the sub-criteria. The subcriteria are issues that the referees should consider in the assessment of the relevant criterion. They also act as reminders of issues to rise later during the discussions of the proposal by the Panel. Each criterion is scored out of 5. Scores are awarded with a resolution of one decimal place.

Eligibility criteria for Researchers

On the date of the relevant deadline for submission of proposals, applicants to INdAM-COFUND fellowship programme must be experienced researchers, that is

(i) be in possession of a doctoral degree, independently of the time taken to acquire it

or

(ii) have at least four years of full-time equivalent research experience, including the period of research training, after obtaining the degree which formally allowed them to embark on a doctorate in the country in which the degree/diploma was obtained or in the country where the fellowship is taking place (irrespective of whether or not a doctorate was envisaged).

Applicants to outgoing fellowships must be Italian nationals or "assimilated" (for example - having legally resided, and having had their main activity (work, studies, etc.), in Italy for at least three out of the last four years) and must not have resided or carried out their main activity (work, studies, etc.) in the outgoing country for more than 12 months in the 3 years prior to the deadline for proposal submission. Short stays such as holidays are not taken into account. For the purpose of the programme, Italy non-nationals having legally resided and having had their main activity (work, studies, etc.) in Italy for at least three out of the last four years, measured at the submission deadline for proposals, are treated as Italian nationals (concept of assimilated nationality). Short stays such as holidays are not taken into account.

Applicants to incoming fellowships must be Italy non-national from a EU Member State (MS)

different from Italy, or Associated Country (AC) or a Third Country, who at the deadline for submission of proposals, have not resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to the Call deadline. Short stays such as holidays are not taken into account

Applicants to re-integration fellowships must be Italian nationals who have carried out research in a Third Country for at least 3 years in the last 4 years prior to the deadline for proposal submission. Short stays such as holidays are not taken into account.

Criteria and subcriteria for the outgoing fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure /facilities and International collaborations of host (outgoing and return host)	Potential of acquiring competencies during the fellowship to improve the prospects of reaching and/or reinforcing a position of professional maturity, diversity and independence, in particular through exposure to complementary skills training
Research methodology	Additional scientific training offered, including acquisition of complementary skills	Results including publications, teaching etc., taking into account the level of experience	Feasibility and credibility of the project, including work plan	Contribution to career development, or reestablishment after a career break where relevant.
Originality and innovative nature of the project and relationship to the 'state of the art' of research in the field		Independent thinking and leadership qualities	Practical and administrative arrangements, and support for the hosting of the fellow (outgoing and return host)	Potential for creating long term collaborations and mutually beneficial co-operation between Italy and the outgoing country
Timeliness and relevance of the project		Match between the fellow's profile and project.		

Criteria and subcriteria for the incoming fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure / facilities and International collaborations of host	Potential of acquiring competencies during the fellowship to improve the prospects of reaching and/or reinforcing a position of

				professional maturity, diversity and independence, in particular through exposure to complementary skills training
Research methodology	Additional scientific training offered, including acquisition of complementary skills	Results including publications, teaching etc., taking into account the level of experience	Feasibility and credibility of the project, including work plan	Contribution to career development, or reestablishment after a career break where relevant.
Originality and innovative nature of the project and relationship to the 'state of the art' of research in the field		Independent thinking and leadership qualities	Practical and administrative arrangements, and support for the hosting of the fellow	Potential for creating long term collaborations and mutually beneficial co-operation between Italy and the country of origin
Timeliness and relevance of the project		Match between the fellow's profile and project.		

Criteria and subcriteria for the re-integration fellowships

S&T Quality	Training	Researcher	Implementation	Impact
Scientific/technological quality, including any interdisciplinary and multidisciplinary aspects of the proposal	Clarity and quality of the research training objectives for the researcher	Research Experience. Scientific and technological quality of previous research	Quality of infrastructure / facilities and International collaborations of host organisation	Benefit to the career of the researcher from the period of reintegration
Research methodology	Additional scientific training offered, including acquisition of complementary skills	Results including publications, teaching etc., taking into account the level of experience	Feasibility and credibility of the project, including work plan	Contribution to career development, or reestablishment after a career break where relevant.
Originality and innovative nature of the project and relationship to the 'state of the art' of research in the field		Independent thinking and leadership qualities	Practical and administrative arrangements, and support for the hosting of the fellow	Potential for creating long term collaborations and mutually beneficial co-operation with the previous country
Timeliness and relevance of the project		Match between the fellow's profile and project.		

Scores and thresholds

The scores indicate the following with respect to the criterion under examination:

0 - The proposal fails to address the criterion under examination or cannot be judged due to missing or incomplete information

1 - Very poor. The criterion is addressed in a cursory and unsatisfactory manner.

2 - Poor. There are serious inherent weaknesses in relation to the criterion in question.

3 - Fair. While the proposal broadly addresses the criterion, there are significant weaknesses that would need correcting.

4 - Good. The proposal addresses the criterion well, although certain improvements are possible.

5 - Excellent. The proposal successfully addresses all relevant aspects of the criterion in question.

Any shortcomings are minor.

The thresholds and weightings for the various criteria are summarized in the table below:

Evaluation criterion	S&T Quality	Training	Researcher	Implementation	Impact
Threshold	3	3	3	N/A	N/A
Weighting (in %)	15	10	60	5	10

Referees perform evaluations on a personal basis, not as representatives of their employer, their country or any other entity. They are expected to be independent, impartial and objective, and to behave throughout in a professional manner. They sign an appointment letter, including a confidentiality and conflict of interest declaration before beginning their work. Confidentiality rules must be adhered to at all times, before, during and after the evaluation. Under no circumstance may an expert attempt to contact an applicant on his/her own account, either during the evaluation or afterwards.

The referees are acting individually; they do not discuss the proposal with each other, nor with any third party. The referees record their individual opinions in an Individual Assessment Report (IAR), giving scores and also comments against the evaluation criteria.

When scoring proposals, referees *only* apply the above evaluation criteria. Referees assess and mark the proposal exactly as it is described and presented. They do not make any assumptions or interpretations about the project in addition to what is in the proposal. Concise but explicit justifications are given for each score.

The referees also comment on strengths and weaknesses of the proposal under examination.

Signature of the IAR entails a declaration that the expert has no conflict of interest in evaluating the particular proposal.

Examples of the evaluation forms and reports that will be used by the referees in each call will be made available on INdAM website.

Allegato 2

B.2 Management of the programme

2.1 Appointment conditions of selected fellows

Since the choice of the host institution(s) is left to the applicant, the appropriate conditions in terms of office/lab space, access to equipment and material must be provided by the host institution. A sub criterion of the “implementation” criterion in the selection includes the appropriateness of the Host offer of technical conditions to the fellow.

The total cost of each fellowship includes a research cost contribution (RCC1) to be paid to the host Institutions, and a research cost contribution (RCC2) to be paid directly to the fellow.

Independently of the host(s) organisation(s), in order to deepen the skills within their discipline and/or to gain new skills in other disciplines and sectors the fellows take part in some of the activities of the Istituto Nazionale di Alta Matematica, as explained in the following paragraph 3.3.

Moreover INdAM will guarantee to each fellow membership of the National Research Groups, and ensure the access to the facilities offered by the INdAM Research Units located at the Italian Universities. Reimbursement of expenses is admitted for scientific engagements compatible with the activities of the National Research Groups.

If the fellows participate in activities organized by INdAM or any of the INdAM National groups, they may get further support for travel. Also for this purpose, the fellows are invited to join the INdAM National groups so that they may apply for support. These further research contributions are nevertheless not guaranteed, as the applications of fellows will be subject to the approval by the Scientific Council of the Group, as it is done for any other member.

Fellows are recruited under a status equivalent to a fixed amount fellowship, with social security coverage and social benefits.

The fellowship consists of:

- an amount to be paid directly to the fellow (the sum of the living allowance and the mobility allowance);
- a travel allowance, to be paid to the fellow as reimbursement of travel tickets;
- insurance costs to be paid by INdAM in favour of the fellow, to provide coverage for work accidents, occupational diseases and invalidity benefits;
- a research cost contribution (RCC1) to be paid by INdAM to the host Institution(s) either by a direct transfer, or as a payment of invoices, in the interest of the fellow;
- a research cost contribution (RCC2) to be paid by INdAM directly to the fellow as reimbursement of expenses for the direct purchase of any material (excluding hardware) or consumable goods needed for his/her research, and of travel and living expenses for participation to scientific events.

For recognition of the profession, non-discrimination, research environment, working conditions, the employment conditions of the fellows comply with the European Charter for Researchers and The Code of Conduct for the Recruitment of Researchers. In particular the employment conditions fully align with the employment conditions provided to FP7 Marie Curie fellows recruited under a fixed amount fellowship scheme.

Allegato 3

B.3 Relevance and Impact to "Life-long training and Career development"

3.3 Career development support to fellows

Fellows are researchers at post-doctoral level. At this stage prospective fellows have generally experience of research conducted under the guide of a more experienced professional. It is the crucial time when the mathematician starts to be able of independent work. The Programme offers a chance to do so giving financial support and, in many ways, the opportunity for the fellows of developing new collaborations as peers rather than directed by a scientific leader.

The career development of the fellows is realized through different types of activity:

- 1) Scientific activities related to the fellow research programme;
- 2) Scientific activities oriented to the acquisition of applicational abilities in different domains and disciplines;
- 3) Training in non-scientific skills.

The first type of activity supplies the fellows with the experience, knowledge, skills and competences for a research career in public and private research organisations (including universities) and in private enterprises.

The second type of activity will supply the fellows with the professional skills that can allow them to enter highly qualified jobs in public bodies and private enterprises.

The third type of activity supplies the fellows with competences other than purely theoretical/technical ones. They will learn how to communicate, to plan and manage projects, to work in teams, to supervise others' work, to raise funds to carry out research, and so on.

Independently of the Host, in order to further help the fellows to deepen the skills within their discipline, to gain new skills in other disciplines and acquiring non scientific skills, INdAM will offer to each fellow a mentoring-training scheme tailored on his/her needs.

As already mentioned, the scheme will consist in three types of activities

1) Scientific activities related to the fellow research programme.

These activities will mainly take place at the Host institution(s), carrying out the career plan explained in the fellowship application. The research cost contribution RCC1 paid by INdAM to the Host Institutions, includes access to seminars, conferences, workshops and other scientific activities and events taking place in the Host Institution. Nevertheless, INdAM will offer to the fellows a large choice of Meetings, seminars, courses, schools, intensive periods either directly organized by the Institute or by other Institutions under special agreements. These are "INdAM meetings", "INdAM workshops", "INdAM intensive periods".

The research cost contribution RCC2 to be paid by INdAM directly to the fellows can be used to support their participation to the events. The participation to the events 2) d) and 2) h) listed below will be directly supported by INdAM on its own budget.

2) Scientific activities oriented to the acquisition of applicational abilities in different domains and disciplines.

- a) Participation in some "INdAM Meetings". Incoming and re-integration fellows will be invited to take part in at least two Meetings (one per year), the outgoing fellows in at least

one (during the return phase). Outgoing fellows during the outgoing phase will participate to a meeting chosen among those organized by mathematical organizations in the outgoing country. In countries covered by a research Institute of IMSI (International Mathematical Sciences Institutes) or of ERCOM (European Research Centres on Mathematics), the meeting will be preferably chosen among those offered by such an Institute.

- b) Participation in some “INdAM Workshops”. Fellows will be invited to take part at least at one workshop (the outgoing fellows during the return phase).
- c) Participation to some of the activities of “INdAM intensive periods”.
- d) Participation to the annual meeting organized by the Equal Opportunity Committee of the Programme at INdAM premises (directly supported by INdAM).
- e) Participation to the scientific activities of INdAM National Research Groups. INdAM will guarantee to each fellow membership of one of the National Research Groups. Among the activities are schools, conferences, seminars.
- f) Participation to the scientific activities of INdAM Research Units located at the Italian Universities. Among the activities are courses, conferences, seminars (the outgoing fellows during the return phase).
- g) Participation to the scientific activities of some Research organizations related to and partially supported by INdAM: CIME (Centro Italiano Matematico Estivo) Firenze, CIRM (Centro Internazionale per la Ricerca Matematica) Trento, Centro De Giorgi Pisa.
- h) Special attention will be devoted to the necessity of fellows resuming a research career after a break of becoming acquainted with the developments of mathematical sciences in the latest years. They will be invited and directly supported to participate, in addition to the above mentioned scientific activities, to the “Giornata INdAM”, which play an important role to outline the recent developments and prospects in Mathematics.

3) Training in non-scientific skills.

INdAM will organize year by year some activities (courses and schools) especially intended for the fellows. The activities will take place at INdAM premises, or at INdAM research Units. Outgoing fellows will participate in the activities during the return phase.

The mechanism of the Program is quite appropriate to offer to qualified perspective candidates the opportunity to readdress their career by working on new research areas. The Programme offers to the fellows the opportunity of working in important research institutions where it is easier to grow professionally to make the fellows’ skills known and appreciated. Furthermore the work of the fellow will be reviewed and evaluated at the end of the fellowship time. The evaluation will be available only to the fellow and might be used as presentation in job applications.

A special section of the INdAM website will be devoted to the final scientific results of the fellows. It will display the fellow final production (papers, seminars, scientific reports, scientific software, patents, copyrights...) and a fellow CV. The existence of such website section will be advertised worldwide periodically, in particular addressing public and private research organisations and private enterprises. The fellow page will be kept in the website for at least four years after the end of the fellowship, and will be periodically kept up-to-date.

INdAM will assist fellows and past fellows in publishing their results, in registrations of patents and copyrights, and in protection of intellectual properties.

The Fellowship Programme is integrated with more general support to research granted by INdAM: the programmes for Visiting Scholars and of support for travel funded by the Research Groups, the programme of Visiting Professors for Doctoral Schools and the support to Intensive Research Periods supported by INdAM. In this framework of research investments which involves the whole Italian mathematical community, scientific relation and collaboration find a natural development as

it suggested by the experience of decades in such kind of initiatives.

The aforementioned fellow space will be kept in the section of INdAM official website for at least four years after the end of the fellowship, and will be regularly kept up-to-date. This means that for a quite long period the Institute will maintain the relationships established during the fellowship. The past fellows will receive periodically information about INdAM activities. INdAM will monitor the professional achievements of the past fellows, for statistical purposes and in order to evaluate the impact of the Programme on the research careers. Information about the INdAM activities will be yearly sent to former fellows.

Fellows who will be appointed as researchers in public or private Universities, public or private research organisations, public or private enterprises, will be invited to maintain their position as members of one of INdAM National research Groups, participating and collaborating to its research activities.

Periodically INdAM will also monitor the evolution of the career of the fellows in order to assess the role played by the programme on the successful achievement of a permanent and satisfactory position.

Allegato 4

Justification of cost breakdown

The fellows are recruited under a status equivalent to a fixed amount fellowship.

The structure of the costs has been designed taking as a reference frame the corresponding Marie Curie actions as shown in Annex 3 of the People Work Programme 2008 (PWP).

• Living allowance:

The base amount is Marie Curie WP 2008 rate stipend, 26.500€ x 103,9 (corrector coefficient for Italy) = 27.533. We increase this slightly to 28.500/year.

This amount is exactly the yearly amount to be paid to each fellow; neither correction factors nor inflation factor will be applied. Hence the average is exactly **28.500 € for all the fellowship schemes.**

• Insurance costs:

To be paid by INdAM in favour of the fellow, to provide coverage for work accidents, occupational diseases and invalidity benefits; they amount to about € 1000 per year for each type of fellowship

• Mobility allowance:

This is a payment of a fixed amount to cover expenses related to the mobility (relocation, family expenses, language courses, etc.).

There is no mobility allowance for outgoing fellows during the return phase. The mobility allowance is only paid in those cases where there is transnational mobility of the researcher, and precisely:

- 600 €/month, for incoming fellows and outgoing fellows during the outgoing phase;
- 450 €/month, for reintegration fellows.

These amounts are comparable with the corresponding Marie Curie amounts.

• Travel allowance:

This refers to an allowance given upon taking up employment and yearly thereafter.

As in Table 3.2 in Annex 3 of the People Work Programme 2008, it is based upon the direct distance between the location of origin of the researcher and the host institution.

Reintegration fellows are entitled to 1 travel allowance, incoming and outgoing fellows receive 2 travel allowances

• Research cost contribution 1 (RCC1):

to be paid by INdAM to the host Institution(s) either by a direct transfer, or as a payment of invoices, in order to assure that the Host actually provides appropriate conditions to the fellow, such as: office/lab space, access to equipment, material and consumables, fees for scientific journals, hardware and software facilities (in particular for scientific computing), access to libraries, access to seminars, conferences, workshops and other scientific activities and events taking place in the Host Institution. The research cost contribution RCC1 has been designed taking as a reference the Marie Curie actions, where it is called *Contribution to the participation expenses of eligible researchers* (People WP 2008 pg 57). RCC1 and RCC2 are tailored so that the total RCC1 +RCC2 is a little less than the corresponding Marie Curie amounts.

The contribution RCC1 consists of €5400 per year (€450 per month) for outgoing fellows during the outgoing phase and €4200 per year (€350 per month) for incoming, reintegration fellows, and outgoing fellows during the return phase (the average for outgoing fellowship is then €5.100).

• **Research cost contribution 2 (RCC2):**

to be paid by INdAM directly to the fellow as reimbursement of expenses for the direct purchase of any material (excluding hardware) or consumable goods needed for his/her research, and of travel and living expenses for participation to scientific events; it amounts to € 1500 per year for each type of fellowship.