

### Art.1

Pursuant to the "Regolamento di Ateneo per gli assegni di ricerca", a public selection process is established to award ONE grant for temporary research fellowship ("*assegno di ricerca*") for a period - renewable - of 12 (twelve) months in the Department of Economic:

#### **RESEARCH PROJECT:**

Conservation of global agriculture and tree biodiversity can contribute toward a sustainable solution to ensure global food and nutrition security despite the anticipated adverse impacts of climate change. Various studies indicate that diversity in food production contributes to diversity in local food availability which, in turn, contributes to health outcomes of individuals. Maintenance of biodiversity on farmer's fields and landscapes is therefore important in ensuring future availability of nutritious and diverse food, particularly in areas with poor market linkages. Biodiversity conservation on farms and on landscapes also allows plants and animals to undergo natural evolutionary processes which consequentially generate broad genetic variation that is essential for adaptation and for resilience against future threats from pests and diseases.

Maintaining in-situ biodiversity can be viewed as an insurance against future disasters from pests and diseases which could potentially wipe out less heterogeneous populations. Agricultural production systems that maintain biodiversity have been shown to experience less pest and disease damage resulting in lower production costs and lower environmental externalities from chemical crop protection measures. The benefits of biodiversity and the maintenance of diverse rural landscapes can therefore include, among others:

- access to improved diets
- more resilient crop and livestock systems
- improved management of natural resources

Despite these benefits, agricultural biodiversity continues to be eroded as a result of a mismatch, over time and space, between costs and benefits incurred to individuals and society in biodiversity conservation and use. Costs of maintaining diversity generally are incurred by individual landholders or operators and these are costs which occur in real time. The returns from these activities, in contrast, may occur over a long period and may not cover the costs of the operator in the short term. In addition, the benefits can likely be enjoyed not just by the land-owner or operator, but also by the community and the whole world. Since markets are poor at valuing many of the benefits of agricultural biodiversity, market prices tend to underestimate their worth, leading to poor resource allocation decisions, which can result in a lower current or future supply of these benefits than is socially optimal. Unless policies and interventions are implemented to correct for existing market failure, there may be little incentive to maintain agricultural biodiversity at socially optimal levels.

Therefore it is important to have a better understanding of different benefits which can result from the maintenance of agricultural biodiversity and be able to estimate these quantitatively in economic terms. Modelling tools can help identify the potential benefits and different options that can be used to address the market failure. Toward this objective, Bioversity International is initiating a program to develop a set of geospatial analytic tools to estimate the value of benefits enjoyed by society through the enhancement and/or safeguarding of agriculture and tree biodiversity.

#### **APPLICANT PROFILE:**

The overall objective of the post-doctoral research activity will be to work with Roma Tre University and Bioversity International to develop a CGE model prototype for a selected geography to enable estimating the value to society of safeguarding agricultural biodiversity. This will likely involve incorporating into the model key ecosystem services which are affected by biodiversity conservation. These may include pest/disease risks, pollination, soil quality, and water use efficiency. The model should allow examining trade-offs in terms of benefits to society between increasing crop productivity, nutrition outcomes and ecosystem services. This post-doctoral position is designed to work with other related efforts focused on developing functional relationships between agricultural management and ecosystem services and incorporate these relationships in a CGE model prototype. While this will be a joint effort of Roma Tre University and Bioversity International, the work is expected to draw upon many other ongoing work streams of CGIAR Research Programs (CRPs.)

#### **Background and experiences Required**

- Ph.D. (or the advancement to candidacy for a PhD) in agricultural and applied economics, economics or another closely related field in economics
- Experience in CGE modelling
- Fluency in English (both written and oral)

- Evidence of ability to initiate and complete research characterized by originality, creativity and innovation.
  - Excellent interpersonal skills and the ability to work in a multi-cultural environment
- Desirable:
- Familiarity with models such as GTAP and MIRAGE
  - Strong statistical/econometric modelling and programming skills
  - Evidence of a track record in elaborating peer-reviewed publications
  - Knowledge about GIS

**Interesting candidates may be interviewed through skype conference call.**

**GROSS AMOUNT (paid in monthly installments): € 23.350,00**

The allowances is subjected to:

- the provisions of the article 4 of Law 08/13/1984, n. 476 (fiscal treatment);
- the provisions of the article 2, paragraphs 26 and following of the law 08/08/1995, n. 335, as further amended (social security);
- the provisions of the article 1, paragraph 788, of Law 27/12/2006, n. 296, as further amended (sick leave);
- the provisions of the Decree of the Minister of Labour and Social Welfare 12/07/2007, published in Official Gazette no. 247 of 23/10/2007 (maternity).

Apart from the cases provided for and regulated by the above provisions, is possible to suspend the research activity for a pre-determined number of months. Suspension is given by the Board of the Department; at the end of the suspension the “*assegno di ricerca*” will resume or will be permanently stopped.

In all cases of suspension the payment is immediately interrupted until the date of resumption of the activities, certified by the Director of the Department.

In the case of anticipate conclusion of the research activity, the monthly installment will be paid proportionally.

#### **Art.2**

To participate in selection it is mandatory to have gained:

- a Ph.D
- or

- a Master of Science, or equivalent qualification, which must be accompanied by an appropriate scientific and professional curriculum demonstrating aptitude for research activities.

Should the Ph.D or the Master of Science have been obtained abroad, the course must be declared equivalent, solely for selection purposes, by the Council of the Department of Economics.

The candidate must possess the required qualification within the deadline specified in paragraph 3, under penalty of exclusion.

#### **Art. 3**

The signed and dated application form, compiled following the scheme available at the end of this Call (**ALLEGATO A**) must be addressed to the Head of the Department of Economics Roma Tre University, Via Silvio D'Amico 77, 00145 Roma, Italy sent via postal service, express courier or hand delivered HAVE TO ARRIVE within the final deadline of **NOVEMBER 27, 2015**; otherwise the applicant will be excluded.

Application must include:

- **appropriate scientific and professional curriculum demonstrating aptitude for research activities;**
- **autocertification for the Degrees (**ALLEGATO B**);**
- (if any) **list of other titles and or previous scientific publication (**ALLEGATO C**)**

#### **Art. 4**

The Board proceeds with selection by examining the qualifications presented by the applicant and the interview held with the procedures and according to the criteria established by the board.

#### **Art. 5**

1. The research grant cannot be awarded to students enrolled in undergraduate, Master, Ph.D. or medical specialization in Italy or abroad, and involves placement on unpaid leave for employee in service with public administrations other than those referred to in point .3 below.

2. Participation in selection is not allowed for spouses, relatives and kin up to and including the 4th degree of the:

- teaching staff of the Department which has issued this notice;
- Rector;
- General Director;
- Members of the Board of Directors.

3. Permanent employees of Universities, research and experimentation institutes or public bodies, the National Institute for New Technologies, Energy and Sustainable Economic Development (ENEA), the Italian Space Agency (ASI) and institutions whose scientific specialization qualifications have been recognized as equivalent to a Ph.D. pursuant to article 74, fourth paragraph, of Presidential Decree no. 382 of 11 July 1980, cannot participate in selection.

4. The research grant cannot be combined with any scholarships, except those awarded by national or foreign institutes to supplement research activities of said temporary research fellows with permanence abroad.

5. The grant for carrying out research activities is governed by a specific individual contract, based on the following criteria: flexibility in meeting the needs of the activity, continuity, time allocation (not sporadic), coordination with the overall activities of the Department, close relationship with the implementation of a research program, autonomous activity within the scope of the program and absence of pre-determined working hours.

#### **Art. 5**

For everything not exposed here must be considered laws and rules regarding the “assegni di ricerca”.

Any other information can be found on the website:

**<http://dipeco.uniroma3.it>**

Rome, 29 October 2015

**ALLEGATO A**

**DOMANDA DI AMMISSIONE REDATTA IN CARTA SEMPLICE**

Al Direttore del Dipartimento di Economia  
dell'Università degli Studi Roma Tre  
Via Silvio D'Amico 77  
00145 Roma

Il sottoscritto (name and surname) .....  
nato a (born in) ..... (.....) il (date) ...../...../.....,  
residente in (city-nation of residence) ..... –  
Via (address) .....  
Tel. .... Mobile. .... E-mail .....

**CHIEDE**

di partecipare al concorso pubblico per l'attribuzione dell'assegno relativo al programma di ricerca dal titolo

**“Modelling to estimate the value of social benefits arising from safeguarding agriculture and tree biodiversity.”**  
**REP. N. 8/2015** da svolgersi presso il **Dipartimento di ECONOMIA**

**DICHIARA SOTTO LA PROPRIA RESPONSABILITÀ:**

- 1) di essere cittadino ..... (citizenship);
- 2) (MASTER OF SCIENCE) di possedere la laurea in ..... e di averla conseguita  
in data ..... presso l'Università di ..... con la votazione di .....
- 3) (Ph.D. - if any) di possedere il diploma di dottore di ricerca in .....  
conseguito in data ....., presso la sede amm.va di .....
- 4) di non usufruire (o di impegnarsi a rinunciare qualora risultasse vincitore) di altre borse di studio a qualsiasi titolo conferite,  
con l'eccezione di quelle concesse da istituzioni nazionali o straniere utili ad integrare, con soggiorni all'estero, l'attività di  
ricerca, o di altro assegno di ricerca;
- 5) di impegnarsi a comunicare tempestivamente ogni eventuale cambiamento della propria residenza o del recapito.
- 6) di essere a conoscenza di tutte le norme contenute nel bando di concorso;
- 7) di non essere dipendente di ruolo presso le Università, gli Osservatori Astronomici, Astrofisici e Vesuviani, gli Enti pubblici  
e le Istituzioni di ricerca di cui all'art. 8 del D.P.C.M. 30.12.93, n.593 e successive modificazioni e integrazioni, l'ENEA e  
l'ASI.
- 8) di non avere un grado di parentela o di affinità, fino al quarto grado compreso, con un professore appartenente al  
Dipartimento presso cui sarà svolto l'assegno ovvero con il Rettore, il Direttore Generale o un componente del Consiglio di  
Amministrazione dell'Ateneo.

**Allega alla presente:**

- autocertificazione relativa alla laurea, con l'indicazione del titolo della tesi discussa e della votazione ottenuta in sede di esame di laurea.  
In caso di laurea ottenuta all'estero il titolo dovrà essere corredato dell'opportuna equipollenza o dovrà essere sottoposto al Consiglio di  
Dipartimento del Dipartimento di Economia per il riconoscimento ai soli fini concorsuali – **ALLEGATO B**;
- (eventualmente) autocertificazione relativa al possesso del titolo accademico di dottore di ricerca; in caso di titolo di livello dottorale  
conseguito all'estero il titolo dovrà essere corredato dell'opportuna equipollenza o dovrà essere sottoposto al Consiglio di Dipartimento  
del Dipartimento di Economia per il riconoscimento ai soli fini concorsuali – **ALLEGATO B**;
- elenco delle pubblicazioni e degli eventuali altri titoli ritenuti utili per il giudizio della Commissione – **ALLEGATO C**;
- dettagliato curriculum scientifico-professionale da cui risulti l'idoneità all'attività di ricerca da svolgersi.

/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.lgs. n. 196 del 30/06/03.

Data, \_\_\_\_\_

\_\_\_\_\_ (firma originale)

**ALLEGATO B**

**DICHIARAZIONE SOSTITUTIVA DI CERTIFICATO REDATTA IN CARTA SEMPLICE**  
(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa")

Il sottoscritto (name and surname) .....  
nato a (born in) ..... (.....) il (date) ...../...../.....,  
residente in (city-nation of residence) ..... –  
Via (address) .....  
Tel. .... Mobile. .... E-mail .....

**DICHIARA (OBBLIGATORIO)**

1b. di aver conseguito la **LAUREA (MASTER OF SCIENCE)**  
in .....  
in data \_\_\_\_/\_\_\_\_/\_\_\_\_ c/o l'Università .....  
rilasciata dalla Facoltà ....., con la votazione di \_\_\_\_/\_\_\_\_  (barrare in caso di LODE)

**DICHIARA INOLTRE**

**(PH.D. - if any)**

2. di aver conseguito il titolo di Dottore di Ricerca in ....., presso  
la sede amministrativa di (University) ....., avendo  
superato con esito positivo l'esame finale il giorno (date) ....., discutendo la Tesi dal titolo: (Thesis title)  
.....

Il/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.Lgs. n. 196 del 30/06/03.

Data, \_\_\_\_\_ (firma originale)

**ALLEGARE FOTOCOPIA DI UN DOCUMENTO DI IDENTITA' (fronte - retro)**

**an ID card (or passport) must be enclosed**

**ALLEGATO C**

**DICHIARAZIONE SOSTITUTIVA DI CERTIFICATO REDATTA IN CARTA SEMPLICE**  
(DPR 28/12/2000, n° 445 "Testo Unico delle disposizioni legislative e regolamentari in materia di documentazione amministrativa")

Il sottoscritto (name and surname) .....  
nato a (born in) ..... (.....) il (date) ...../...../.....,  
residente in (city-nation of residence) ..... -  
Via (address) .....  
Tel. .... Mobile. .... E-mail .....

**DICHIARA CHE SONO PIENAMENTE CONFORMI AGLI ORIGINALI**

le allegate copie dei seguenti titoli (**OTHER TITLES** - that must be enclosed to the form)

- a) .....
- b) .....
- c) .....
- d) .....
- e) .....
- f) .....
- g) .....
- h) .....
- i) .....
- j) .....

nonché le allegate copie delle seguenti pubblicazioni (**SCIENTIFIC PUBLICATIONS** - that must be enclosed to the form)

- a) .....
- b) .....
- c) .....
- d) .....
- e) .....
- f) .....
- g) .....
- h) .....
- i) .....
- j) .....
- k) .....
- l) .....
- m) .....
- n) .....

Il/la sottoscritto/a autorizza l'Università degli Studi Roma Tre al trattamento dei dati personali, nel rispetto del D.Lgs. n. 196 del 30/06/03.

Data, \_\_\_\_\_

\_\_\_\_\_ (firma originale)