

Milano, - 7 FEB. 2019 prot. n. 3901
[Cod. riferimento: C3 1°L]

COMPETITION FOR THE CONFERRAL OF 1 RESEARCH GRANT FOR THE SECTOR OF o2/A2 THEORETICAL PHYSICS OF FUNDAMENTAL INTERACTIONS AT THE CENTRE BIDSА – BOCCONI INSTITUTE FOR DATA SCIENCE AND ANALYTICS OF UNIVERSITA' COMMERCIALE "LUIGI BOCCONI" OF MILAN, FINANCED BY ONR – OFFICE OF NAVAL RESEARCH.

Article. 1

To further the education and improvement of junior scholars, the Università Commerciale "Luigi Bocconi" of Milan, announces a competition by exams and academic titles for the conferral, by means of an appropriate contract, according to art. 22 of Law 240/2010, of 1 research grant with the following characteristics:

Duration: **ONE YEAR**

Sector: o2/A2 THEORETICAL PHYSICS OF FUNDAMENTAL INTERACTIONS

(Scientific Sector FIS/o2 Theoretical Physics, Mathematical Models and Methods)

Centre BIDSА - Bocconi Institute for Data Science and Analytics

Financed by: **ONR – Office of Naval Research**

Professor of referral: **prof. Riccardo ZECCHINA**

Project: "Learning and control of next generation deep neural technologies"

Research Project: The aims of the research activity will be to study the geometric aspects of the supervised learning algorithms in neural networks and to understand how these algorithms can be simplified in order to satisfy the efficiency and modeling constraints of realistic learning processes. The techniques used will be those of theoretical statistical physics of random systems, together with rigorous mathematical techniques. An important part of the activity will consist in the algorithmic implementation of the theoretical results.

Article. 2

Admission Requirements

In order to participate in the competition, the candidate must have, as a preferred qualification, the possession of a PhD or equivalent, carried out in Italy or abroad, or in the course of being conferred.

Relations (up to the fourth degree of kinship) to any professor in the University Council, the University Rector, the Director General or any members of the University Board are not allowed to apply.

Conferral of the research grant is incompatible with any form of employment or any simultaneous use of PhD grants, specialist schools or post-doctorate grants in Italy or abroad and if the candidate is a public employee, they must take unpaid leave.

If the candidate has benefitted from any previous grants or scholarships with any university, they cannot exceed a total of twelve years. Time off for maternity or health reasons is not counted as part of the twelve years.

These statutory pre-requisites must be in place at the deadline for the presentation of applications determined by the present announcement. Candidates may obtain a conditional acceptance. At any time, the administration can arrange, with reason, exclusion from the selection procedure due to the lack of necessary pre-requisites.

Article. 3 **Applications**

Applications, completed according to the attached form, addressed to the Rector of Bocconi University, must reach the “Divisione Faculty e Ricerca” office via e-mail before **12 noon of 7 March 2019** to recruiting-adr@unibocconi.it

Each candidate’s application must clearly indicate:

- surname and name
- date and place of birth
- fiscal code (codice fiscale)
- citizenship
- residence
- contact address
- educational qualifications (degree and PhD)

The application must include the following documents, which must be attached to the application and sent exclusively via e-mail:

- degree certificate (3-year degree and Masters degree), in pdf format;
- PhD certificate or equivalent obtained in Italy or abroad, in pdf format;
- Professional C.V., in pdf format;
- A list of titles and publications in pdf format;
- any certificate or document proving your scientific preparation in your chosen field, which the candidate intends to submit for evaluation, in pdf format:

Conferral of the research grant is compatible with any form of occasional work but incompatible with any simultaneous use of PhD grants, specialist schools or post-doctorate grants.

If the candidate covers any other posts, the candidate must attach a declaration specifying the type of activity undertaken, duration and the university in which they carried out their research and the commitment to give up the employment if conferred the grant due to incompatibility.

Finally, if the candidate has benefitted from any previous grants or scholarships with any university, they must attach a declaration explaining the time period, length and University where they benefitted from the grant.

Article. 4 **Judging Committee**

The Judging Committee of the current competition, named by the Rector, is made up of three tenured professors who will remain for two years in their role.

The competition will be carried out by an evaluation of titles and examination, by means

of an interview.

The Committee can allocate a maximum of 100 points for each candidate:

- 30 points for the evaluation of CV and academic titles;
- 30 points for the evaluation of scientific publications presented;
- 40 points for the evaluation by interview

In order to be admitted to be evaluated by interview, candidates must first achieve a minimum of 40/100 points in the evaluation of titles, publications. The points given for titles will be communicated to the candidates before the interviews are carried out.

Candidates will be informed of the interview date by e-mail, with adequate advance notice. The interview can also be carried out via *conference call*. There is also the possibility that an interview can be carried out in a room at the University with advance notice of at least 7 days. The interview will be open to the public.

At the end of the assessment, the Committee formulates a final judgement for each candidate and creates a ranking in descending order on the basis of the score obtained, thereby assigning research grants to winning candidates.

The Commission may appoint suitable candidates who can take over in the event of withdrawal/renunciation of the winner.

Each winning candidate will receive a written communication, via e-mail with the grant contract that should be duly signed, before the deadline of 15 days after receiving the letter.

The grant cannot be divided. If for any reason the candidate stops receiving the grant, they cannot be substituted by other candidates who have not won a grant.

Article.5 **Rights and Duties of the Grant Winner**

The grant will indicatively run from **1st April 2019**.

Conferral of the grant implies a commitment to undertake research, study and preparation of research for at least four days a week.

The normal obligations of the research include:

- Research activity as part of the Research Project presented, as well as additional programs elaborated by the Centre, supervised by the *Professor of referral*, who will check the activity carried out;

All other work, for the University or externally, undertaken outside of the four days in the University, should not conflict with that of the researcher at Bocconi University. A judgment of these circumstances will be decided by the Centre Director, having consulted the professor of referral.

Such circumstances will lead to the ending of the assignment of the grant.

The conferral of the research grant does not constitute an employment contract and does not confer any rights to teaching roles within the University.

Article.6
Economic Compensation

The amount of the research grant is **€ 19.500,00 gross per annum**. The amount is excluded from “Irpef tax” (regional tax).

The University will provide insurance for risks of injury and civil responsibility.

The payment of the grant will be made monthly post-dated, following presentation before the tenth day of each month, of a payment note, signed by the *Professor of Referral* with the scope of checking the activity undertaken.

Article.7
Causes of deferral or suspension of the grant

If a candidate is on maternity leave, minimal payments will be made by INPS (national insurance) and a top-up payment will be made by Bocconi University up to the monthly amount of the grant.

Article. 8
Stays Abroad

Stays abroad, for study reasons, should be approved by the Rector beforehand, by means of a formal assessment by the Centre Director, having conferred with the *Professor of referral*.

Article. 9
Certificate of the activity carried out

At the end of the grant, the beneficiary has the right to ask for a certificate from the part of the *Professor of Referral*, stating the scientific activity carried out during their time in Bocconi as a researcher.

Article. 10
Treatment of Personal Data

According to a General Data Protection Regulation n. 679/2016 all personal data supplied by candidates to the Faculty and Research Division, both in electronic and paper format, is exclusively for evaluation purposes and to publicize the acts related to the current evaluation procedure and the conferral of an Research Grant position as detailed in this announcement.

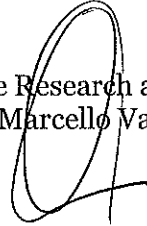
Article. 11
Advertising

The announcement of the competition for assigning the research grants is advertised on the Bocconi University website, as well as the Italian Ministry and European Union sites. Università Bocconi can also publish this announcement on the main international job

opening websites for this scientific sector. Copy of this advert is available from the Faculty and Research Division.

This announcement is published in English. In case of divergences between Italian and English text, the Italian version will be considered definitive

Director of the Research and Faculty Division
(dott. Marcello Valtolina)



ATTACHMENT A
Application Form

**Al Magnifico Rettore
dell'Università Commerciale "Luigi Bocconi"**

Via Sarfatti 25
20136 MILANO

I, the undersigned (Surname) (Name)
born in on (DoB) resident in
..... (postcode)
Road..... house number
tel. mobile phone.....
e-mail.....

ASKS

to be admitted for selection, by means of titles and exam, competition number_____ date.....
[Cod. referral:C3 1°L] for the assignment of **1 research grant for one year**, for research activity and
teaching in the Sector of 02/A2 Theoretical Physics of Fundamental Interactions, for the Centre BIDSa,
financed by ONR.

To this end, I declare:

- a) to be a citizen of
- b) to have my current address in postcode., road....., number., Tel., I commit to communicate promptly any changes to my address
- c) to have a degree infrom the University....., conferred on (date).....with a grade of.....
- d) to have a PhD in.....in date.....conferred on (date).....from University.....(if present);
- e) to be in the possession of other titles;
- f) to have previously received / not received a grant fromuniversity fromto.....;
- g) Fiscal Code
- h) to commit to not have any other grants or fellowships;
- i) to not cover any other positions, or if so, to give up these positions if assigned a grant.

I, the undersigned, attach to my application:

- 1) a scientific, professional curriculum vitae;
- 2) publications in pdf;
- 3) any other titles in my possession, which may be useful to demonstrate my qualifications:

Date

Signature

N.B.: documents and titles must be presented in pdf format. Completing this form, the candidate declares that any documents produced are exact copies of the original. Any false declarations will be punished by Law.

Date

Signature