

Milan, prot. n. 11419

**COMPETITION FOR THE CONFERRAL OF 1 COLLABORATION CONTRACT
AT THE DONDENA RESEARCH CENTRE OF UNIVERSITA' COMMERCIALE
"LUIGI BOCCONI" OF MILAN, FINANCED BY ERC**

Article. 1

The Università Commerciale "Luigi Bocconi" of Milan is launching a competition based on qualifications and tests for the conferral, by means of an appropriate contract, of 1 collaboration contract with the following characteristics:

Duration: 24 months

Research Centre: DONDENA

Financed by: ERC

Scientific Coordinator: Prof. Alessia Melegaro

Research Project: "IMMUNE - Modelling the IMpact of huMan behavioUrs on iNfections spread", ERC-2020-COG, Project n. 101003183

Vaccines represent one of the most significant, cost-effective and safe public health interventions ever introduced. However, vaccine hesitancy has become alarmingly widespread over the last two decades and even during the current Covid-19 pandemic we are observing patterns of vaccine resistance and reactions to vaccine scares. The IMMUNE project will analyse the determinants and mechanisms of vaccine hesitancy and, more generally, compliance to public health measures with respect to infectious disease and will expand the epidemiological modelling framework to incorporate human behavior on the analysis of infections' spread. We will consider risk perceptions on diseases and vaccines, (mis)information campaigns, social peers influence and the effects of digitalisation. This will be achieved through the integration of epidemiological models, statistical analysis and computer science tools.

Job description:

A combination of quantitative approaches and research methodologies will be required to extend the current state-of-the-art epidemiological models. Digital records on individuals' use of the Internet and social media will be analysed to study the interplay between health communications, risk perception and vaccine uptake in different contexts. Online experiments and field surveys will be conducted in different countries to generate data on individuals' social interactions, both physical and virtual. Agent-Based and mechanistic compartmental models will be developed to unravel the complex relationship between the determinants of human behaviour, vaccination decision and infection spread.

Article. 2 *Admission Requirements*

In order to participate to the competition, the candidate must have the possession of the following requirements:

- PhD or equivalent, carried out in Italy or abroad, on one of the following: mathematical biology/quantitative epidemiology/statistics.
- High quantitative skills with statistical software (Stata, R).
- At least one programming language (C/C++)
- Excellence proficiency in English.
- Quantitative background with an already solid experience in mathematical modeling of infection transmission and control, and related statistical methods.
- Demonstrable previous involvement in research projects relevant to the IMMUNE framework.
- Able to autonomously follow projects through from conception to publication in high impact factor journals
- Be a strong writer, have experience presenting work to scientific audiences from diverse fields.
- Enjoy working collaboratively. The successful candidate will be part of a team of epidemiologists, statisticians, demographers, sociologists and computational social scientists. Supervision of more junior team members will be required.

Relatives (up to the fourth degree of kinship) of professors in the University Council, the University Rector, or the Director General may not apply.

Candidates must be in possession of the above-mentioned requirements by the deadline for the presentation of applications as indicated in this advertisement.

Candidates may obtain conditional acceptance. At any time, the administration can arrange, within reason, exclusion from the selection procedure due to the lack of the necessary requirements.

Article. 3 *Applications*

The attached Application Form, addressed to the Rector of Bocconi University, must be sent to the “Faculty and Research Division” office at recruiting_ricerca@unibocconi.it. The deadline for submitting applications is **5 pm on 10/05/2021**.

Applications must clearly indicate:

- Name and surname
- date and place of birth
- fiscal code (codice fiscale, if applicable)
- citizenship
- residence
- contact address
- qualifications.

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

- degree certificate, in pdf format;
- professional CV, in pdf format;
- main publications (max. 2/3).

Article. 4 ***Evaluation Committee***

The Evaluation Committee is composed as follows:

- 1st member: Director of the Research Centre or a representative
- 2nd member: Scientific Coordinator
- 3rd member: a person jointly appointed by the Director of the Research Centre and the Scientific Coordinator

The selection will be carried out by means of an evaluation of qualifications and an interview.

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

- Maximum 60 points for the evaluation of the CV and publications;
- Maximum 40 points for the evaluation of the interview.

Based on the selected range for the evaluation of the CV, the Evaluation Committee may indicate, in the evaluation minute, a minimum threshold for being admitted to the interview stage.

The total (phase 1 and phase 2) minimum score to be included in the ranking list is 60.

Candidates will be informed of the interview date via e-mail, with suitable advance notice. Interviews may be held via conference call, or face to face at the University premises.

The Committee will evaluate the candidates and will rank these based on the scores obtained. The list will be valid until the end of the project, should the Scientific Coordinator wish to use the same list to recruit additional researchers.

Winning candidates will be notified in writing of the award decision. Candidates must sign the contract at the latest 15 days after receipt.

The contract is individual and indivisible.

Article.5 ***Rights and Duties of the Contract Worker***

The contract will have a duration of 24 months and is likely to run from June 2021, compatibly with the restrictions imposed by the current international health emergency.

Conferral of the contract implies a commitment to undertake research and dissemination activities at the university or any other contractually agreed location.

The normal obligations of the Contract Worker include:

- Research activity in the context of the Research Project, under the supervision of Prof. Alessia Melegaro, Scientific Coordinator of the project who will assess the activity undertaken.

Activities undertaken outside of the scope of the contract, should not conflict with the contract with the University. The Director of the Centre will assess potential conflicts of this nature, following a consultation with the Scientific Coordinator. Such circumstances will lead to the termination of the contract.

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

Article.6 ***Financial Compensation***

The amount of the contract is €45.000-55.000 gross per year (depending on experience). The University will provide accident and liability insurance cover. Payments will be normally made in monthly post-dated instalments, following the submission, by the deadline indicated by the Administration Department, of a payment note signed by the Scientific Coordinator who will verify the activity undertaken.

Article.7 ***Causes of deferral or suspension of the contract***

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

Article. 8 ***Treatment of Personal Data***

All personal data supplied to the Faculty and Research Division of Bocconi University will be used for the current evaluation procedure and for the conferral of a collaboration contract.

Article. 9 ***Advertising***

The advertisement of the above-mentioned position is published on the Bocconi University website. Bocconi University may also publish this advertisement on the main international job opening websites for this sector. A copy of this advertisement is available from the Faculty and Research Division.

This advertisement is also published in Italian. In case of discrepancies between the Italian and English texts, the Italian version will be considered definitive.

Faculty and Staff Administration
(Marcello Valtolina)



ATTACHMENT A

Application Form

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

Via Sarfatti 25
20136 MILANO

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

ASKS

to be admitted to the selection, by means of qualifications and exam, relating to the competition number 11419 dated 21/04/2021 for the assignment of 1 collaboration contract for the duration of 24 months, to undertake research activity at the DONDENA Research Centre of Bocconi University, as part of the project "IMMUNE - Modelling the IMPact of huMan behavioUrs on iNfections sprEad", financed by ERC.

To this end, I declare:

- a) to be a citizen of
- b) that my current address is postcode,
.....tel. , (any changes to this address
will be promptly communicated)
- c) to have a PhD degree infrom the
University....., conferred on (date).....with
a grade of.....;
- d) to be in the possession of other qualifications (if applicable);
- e) Fiscal Code (if applicable).

I, the undersigned, attach to my application:

- 1) a scientific, professional curriculum vitae;
- 2) qualifications in my possession;
- 3) Main publications (2/3).

Date

Signature.....

N.B.: documents and qualifications must be presented in pdf format. By 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