

**NOTICE OF SELECTION FOR THE  
PARTICIPATION IN OPEN  
THE INTERNATIONAL  
2021/2022**



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

**AWARD OF STUDY GRANTS FOR  
INNOVATION PROJECTS UNDER  
PROGRAMMES CBI AND SUGAR**

Participation is open to students of the University of Bologna who, at the time of applying, are enrolled for the 2021/2022 academic year in:

- **the first or second year of a second cycle degree programme**
- **the fourth or fifth year of a single cycle degree programme with a duration of 5 years**
- **the fifth or sixth year of a single cycle degree programme with a duration of 6 years**

**Students in the final year of a first-cycle degree programme, including from other universities, can also apply and participate, provided that they are enrolled on the first year of a UNIBO second-cycle degree programme also if *subject to obtaining the undergraduate degree qualification*.** The Administration will perform the relative checks in a timely manner. Candidates who do not obtain the qualification by said date will be immediately excluded from the selection procedure, even if already enrolled and ranked according to merit.

## **1. DESCRIPTION OF THE CBI AND SUGAR PROGRAMMES**

Within the context of the **CBI Challenge Based Innovation** programme (<http://www.cbi-course.com/>), delivered in collaboration with CERN in Geneva, and the **SUGAR Network** (<https://sugar-network.org/about>), an international network founded by Stanford University, the University of Bologna - in collaboration with Almacube and Confindustria Emilia Centro - promotes *Open Innovation projects* and **offers study grants to students to carry out the activities planned in the abovementioned programmes.**

The initiative will be funded through contributions from partner companies that will set a challenge for the students who, working in project teams, will seek to create an innovative prototype that meets the needs identified at the start of the challenge presented.

The results obtained may give rise to an innovation implemented by the partner company or to a project for a new innovative company.

The course comprises a set of training modules that altogether serve to help students gain collateral and supplementary skills.

**The experience gained will be recognised in the diploma supplement and may also count towards the accrual of credits, based on the opinion of the degree programme board of the participant** requesting it and subject to certification of the experience gained, issued by Almacube and Artec. The **CBI (Challenge Based Innovation) programme** will take place mainly at the University of Bologna and the

Almalabor and Almacube premises, or remotely, and entails 2 mobility periods in CERN in Geneva (CH), subject to the public health provisions in place related to the COVID19 health emergency.

The objective of the **CBI Programme** is the application of *human centred design and technological transfer methods* to the challenges proposed by partner companies. The approach is focused on stimulating the development of cutting-edge solutions inspired by CERN technologies and that represent a value for the companies proposing the challenges. The students work in multidisciplinary teams supported by teachers, researchers and experts in innovation, interacting with the CERN experts and the partner companies. They tackle innovation challenges in which the technologies developed at CERN inspire solutions to satisfy the needs of the society. The teams are composed of between 5 and 8 students from the University of Bologna and one other university in the region. During the activities that will be carried on in Italy it's requested a part-time commitment. The students will work on the programme twice a week, dedicating a total of 8 hours a week: a group half-day to be established by the programme organiser, which cannot be changed (the half-day will be indicated prior to the start of the activities, upon finalisation of the ranking list); another half-day, to be chosen by each team together with their coach at the start of the programme, based on the agenda of the team members. In addition to these hours, every student has to add the time required to perform the individual work necessary to continue with all the activities. The two mobility periods in CERN entail a full-time commitment over a cumulative period of 15 days during which the students will carry out activities related to the project view and final presentation. A further mobility period of up to 6 days in Italy is envisaged, in close connection with the companies and mentors.

**The total time commitment for the CBI programme is around 300 hours**, spread out over 18 weeks. The dates of the mobility periods will be communicated at the start of the programme or in any case at least 1 month before the period in question.

**The SUGAR programme** will take place mainly at the University of Bologna and the Almalabor and Almacube premises, or remotely, and entails 3 mobility periods in foreign universities, subject to the public health provisions in place related to the COVID19 health emergency.

The objective of the **SUGAR programme** is the application of human centred design methods developed in Silicon Valley with a view to finding solutions to the challenges proposed by the companies. The students will work in multidisciplinary and multicultural teams on innovation challenges. The programme is delivered in tandem with a University of the SUGAR Network (whose team of students will work together with the team of students from the University of Bologna). The students will be supported by teachers, researchers and experts in innovation, interacting with the partner companies. The programme enables students to learn how to create new product concepts through a "needs research-ideation-rapid prototyping" process.

During the activities that will be carried on in Italy it's requested a part-time commitment. The students will work on the programme twice a week, dedicating a total of 8 hours a week: a group half-day to be established by the programme organiser, which cannot be changed (the half-day will be indicated prior to the start of the activities, upon finalisation of the ranking list); another half-day, to be chosen by each team together with their coach at the start of the programme, based on the agenda of the team

members. In addition to these hours, every student has to add the time required to perform the individual work necessary to continue with all the activities.

During the mobility periods abroad, students will be required to make a full-time commitment. The mobility periods are organised as follows:

1- Programme *kick-off*: The first week in October 2021 with the destination still to be decided, although most likely in Europe, taking into account the restrictions in place due to the health emergency;

2- *Projects review*: 1 week in March 2022 at a foreign university (including outside of Europe) that is a partner in the project, to be defined prior to the start of the programme;

3 - *Final presentation*: 1 week at the end of May/start of June 2022 at another university in California, USA or in Europe, taking into account the restrictions in place due to the health emergency.

**The total time commitment for the programme is around 450 hours**, spread out over 35 weeks.

The exact dates of the mobility periods and of the weekly group meeting will be communicated during the initial programme kick-off meeting.

The two programmes entail the following activities:

1 - *Project kick-off*, during which the challenges proposed by the partner companies are defined and the work methods are shown to the teams.

2 - *Understanding the context*: activity performed in order to analyse the target user, the market and the design opportunities. For CBI, the team will aim to discover new opportunities and unsatisfied needs, connecting those to the opportunities generated by the technologies at CERN and researchers who are expert in those technologies. In this regard, the students will take part in several days of vertical training delivered by experts. For SUGAR, the team will aim to discover new opportunities and unsatisfied needs, seeking to reformulate the challenge through the eyes of the users themselves. In both programs, the research phase will entail the following activities: further investigation of the context and users; market research; identification of the needs, desires, problems and frustrations of users; identification of all the stakeholders involved and their interests; test the initial hypotheses.

3 - *Summary and Abstraction*: activity that entails summarising the information gathering during the preceding phases, in order to identify the most promising project characteristics, and developing an innovative solution based on real and original needs and problems. During this phase, the team will have to interact with the partner company.

4 - *Project Review*: meeting with the CERN researchers (CBI Programme) or meeting with the international team of partner universities (SUGAR Programme) in order to discuss the research progress made and to plan future work.

5 - *Ideation*: activity aimed at gaining further knowledge of the design space and of the user through the rapid and interactive prototyping of various ideas and through potential project developments, with a view to gradually arriving at the final concept solution. Through multiple interactions, the team generates many prototypes to test and validate the design hypotheses, with a view to reaching a final solution that actually meets the needs and demands of the user.

6 - *Solution*: after several prototypes and testing activities carried out with the users and suppliers during the process, the team will develop a final solution in the form of a detailed prototype which integrates desirability, feasibility and profitability.

7 - *Presentation of the final solution* at CERN (CBI Programme) or in California (SUGAR Programme).

## 2. AVAILABLE

## GRANTS

For the above initiatives, the following grants are available:

- up to 24 study grants in order to cover mobility costs amounting to €850,00 gross each for the CBI Programme - at the CERN in Geneva - which will take place between October 2021 and February 2022.
- up to 16 study grants in order to cover mobility costs amounting to €2.800,00 gross each for the SUGAR/ME310 Programme - which will take place between October 2021 and June 2022.

***The number of grants to be provided is subject to confirmation of the start of the individual collaboration projects with the partner companies. Satisfaction of this condition will be verified prior to starting the activities.***

The aforementioned sums will be disbursed provided that it is possible to make the planned trips, taking into account the national and international provisions in force concerning health protection.

Mobility costs during the periods spent abroad are understood as including, for example, food, accommodation, travel, local transport, health insurance. Regional mobility costs during the part of the project spent in Italy include, for example, transport costs to travel to the premises of companies or universities in the Region in order to meet with and interview users or experts.

The grant may be disbursed in a single payment also after the date of departure to undertake the mobility period abroad. If the grant recipient does not participate in one or more mobility periods abroad during the period envisaged, he or she will be required to return the sums already received for the periods not undertaken. Furthermore, he or she will no longer be eligible to reapply in the event that a subsequent notice of selection is issued.

If, following the award of the grant, circumstances arise that would prevent the grant being used (e.g., maternity, serious and documented illness), the person concerned must communicate said circumstances, providing adequate documentation, and will be eligible to reapply in the event that a subsequent notice of selection is issued.

The amount of the study grant may be reduced in the event that it is not possible to undertake the mobility period abroad due to the possible continuation of the health emergency.

## 3. REQUIREMENTS

## FOR

## PARTICIPATION

Participation is open to students of the University of Bologna who, at the time of applying, **are enrolled for the 2021/2022 academic year in:**

- **the first or second year of a second cycle degree programme**

- the fourth or fifth year of a single cycle degree programme with a duration of 5 years
- the fifth or sixth year of a single cycle degree programme with a duration of 6 years

Students in the final year of a first-cycle degree programme, including from other universities, can also participate, provided that they are enrolled on the first year of a UNIBO second-cycle degree programme also if *subject to obtaining the undergraduate degree qualification*. The Administration will perform the relative checks in a timely manner. Candidates who do not obtain the qualification by said date will be immediately excluded from the selection procedure, even if already enrolled and ranked according to merit.

**Candidates must be enrolled at the University of Bologna for the entire duration of the project.** Since participants must maintain their student status, the programme is not open to students who plan to graduate prior to the end of the programme.

Candidates must **demonstrate their knowledge of English**, which is the official language of the programmes in question. Those who have already participated in the CBI and SUGAR Programmes in previous years may not apply.

#### 4. APPLICATION

The application (see facsimile Annex 1) must be submitted using the online form available at the link <https://studenti.unibo.it> - "Call section", **by and no later than 23:59 on Wednesday 8 September 2021.**

The application must include a curriculum vitae (indicating the degree awarded and the relative classification or the weighted average of the grades achieved in the exams taken during the degree programme) and a link to a video presentation, which must be exclusively in English, of a maximum duration of 2 minutes, outlining the candidate's reasons for applying (no special equipment is necessary to make the video: a simple *smartphone* equipped with a video camera is sufficient).

Upon receipt of the application, an ID will be assigned which can be viewed on your personal page on *Studenti Online*.

Students invited for interview are reminded that they must bring an identity document with them.

Further information may be obtained by writing an email to [oper.space@unibo.it](mailto:oper.space@unibo.it)

#### 5. SELECTION CRITERIA AND METHODS

The selection process entails 3 steps:

- assessment of the candidates' *curricula vitae*, their presentation video and qualifications, for which up to 30 points are available;
- group assessment, for which up to 30 points are available;

c) individual interview, for which up to 40 points are available;

An initial assessment will be performed of the candidates' curricula vitae, presentation videos and qualifications. Candidates deemed suitable will be called to take part in a **group assessment activity**, which will take place **on 15 and 16 September 2021 from 09:00 to 13:00**.

Candidates deemed suitable following the group assessment will take part in an **individual interview**, which will take place **on 20, 21 and 22 September 2021** between 09:00 and 13:30. Candidates will be informed by email of the date of the interview.

The assessment of the curricula vitae, presentation videos and qualifications, the group assessment and the individual interview are aimed at evaluating the candidates' characteristics and motivations in relation to the specificities of the CBI and SUGAR programmes.

The programmes are interdisciplinary. The aim will therefore be to foster the disciplinary heterogeneity of the students. Verification that the candidates meet the requirements for admission to the programme will take place upon conclusion of the selection procedure.

In the event that a sufficient number of candidates is not deemed eligible by the Award Committee, the available places will not be filled.

## **6. AWARD**

## **COMMITTEE**

The Award Committee is composed of the following members, who are experts in innovation: Matteo Vignoli and Nicolò Cocchi (Department of Management); Elena Gecchelin (KTO); Mario Di Nauta and Eleonora Musca (Almacube). In the event that the permanent members are unavailable, the following substitutes are designated: Alberto Miti, Lucia Monti, Francesco D'Onghia (Almacube), Clio Dosi (Department of Management).

## **7. RANKING**

## **LIST**

The ranking list will be published by or before 24 September 2021 on the website <https://site.unibo.it/idea/it>.

Successful candidates will be notified through an email sent to the institutional account (@studio.unibo.it) provided in the application.

**Candidates must confirm their acceptance by 12:00 on 28 September 2021**, failing which the grant in question will be offered to the next person on the ranking list. Any reserve candidates will be contacted before 1 October 2021. Candidates are urged to also check the spam/unwanted email folders in their email account.

## **8. INSURANCE**

**AND**

**START**

**OF**

**ACTIVITIES**

Students will benefit from insurance cover provided as of payment of the enrolment fee and in effect until the award of the degree qualification.

The orders of the AFORM/ARTEC managers shall constitute formal authorisation of the Head of the Structure for the purposes of guaranteeing the insurance cover of the grant recipients and eligible students during their travel and stay abroad. Students of the University will automatically be insured provided that they are properly enrolled.

## **9. OBLIGATIONS OF THE SUCCESSFUL CANDIDATES**

Successful candidates must:

- communicate their willingness to participate in the programme and acceptance of the relative grant by 28 September 2021;
- participate in the initial programme kick-off meeting;
- work on the Project in compliance with the relative specifications and the commitments envisaged for each programme;
- upon completion of the programme, produce a final report on the activities performed and present the solution created at two events organised by Almacube S.r.l.

These activities are part of the programme and failure to complete them will be interpreted as failure to complete the programme by the student.

If a student decides to withdraw from the programme, he or she must promptly communicate said intention and return any grant received in accordance with the procedures that will be specified.

## **10. CONFIDENTIALITY AND INTELLECTUAL PROPERTY**

With regard to confidentiality and intellectual property rights over any products that may be produced during the programme with which this selection procedure is concerned, the relative provisions of the University Regulations shall apply. In particular, the results generated in the context of this Notice of selection are the property of the University.

## **11. PRIVACY PROTECTION**

The data collected will be processed for the purposes of carrying out the institutional activities of the University and will be archived in compliance with the provisions of Regulation (EU) 2016/679 and Legislative Decree

196/2003, as amended. The data will be processed using electronic and non-electronic means. Provision of the data is mandatory in order to present projects and submit the relative funding applications in relation to this selection procedure. Said data will be communicated and/or disseminated only in execution of specific legislative provisions. The Data Controller is Alma Mater Studiorum - University of Bologna, with registered offices at via Zamboni 33 – 40126 Bologna, in the person of the Rector who is its Legal Representative. Contact details: [privacy@unibo.it](mailto:privacy@unibo.it);

scriviunibo@pec.unibo.it. The contact details of the Data Protection Officer (DPO) are: [privacy@unibo.it](mailto:privacy@unibo.it).

The person in charge of responding to data subjects is the Head of the Industrial Relations, Third Mission and Communication Division, Via Zamboni, 33 - 40126 Bologna. In their capacity as data subjects, participants enjoy the rights set out in sections 2, 3 and 4 of Chapter III of Regulation (EU) 2016/679 (e.g., the right to ask the Data Controller for access to their personal data and the rectification or erasure of the same; to request the restriction of data processing related to them; to object to the processing of data related to them; to the portability of their data).

Signed electronically

Head of Industrial Relations, Third Mission and Communication  
Marco Degani

Signed electronically

Head of the Education and Doctorate  
Division  
Daniela Taccone