



CALL FOR APPLICATIONS FOR ADMISSION TO THE DOCTORAL RESEARCH PROGRAMME IN CHEMICAL AND PHARMACEUTICAL SCIENCES - DEADLINE: 24 July 2020

ART. 1 - SUBJECT

1.1. The University of Siena announces a selection procedure for admission to the doctoral programme in **CHEMICAL AND PHARMACEUTICAL SCIENCES** for academic year 2020/21, provided that the Ministry renews programme accreditation for the 36th cycle. **General admission requirements for the Doctoral Research programme:**

**DOCTORAL RESEARCH PROGRAMME IN CHEMICAL AND PHARMACEUTICAL SCIENCES
 A.Y. 2020/2021 – 36th CYCLE**

CORSO DI DOTTORATO	DOCTORATE PROGRAM IN CHEMICAL AND PHARMACEUTICAL SCIENCES		
COORDINATORE	Maurizio Taddei maurizio.taddei@unisi.it t		
Dipartimento	Biotecnologie, Chimica e Farmacia		
Durata del corso	3 anni		
Posti da bandire	10 I candidati possono applicare a più di un concorso Le iscrizioni on-line saranno possibili a partire dal 25 giugno fino al 24 luglio		
di cui:	n. borse	Finanziatore	Tema di Ricerca
Posti con borsa co-finanziata da Ateneo /Dipartimento	1	Ateneo/DBCF (Prof. Taddei)	Development of sustainable methods for API synthesis
	1	Ateneo/DBCF (Prof. Rossi)	Identification and characterization of new natural antioxidant molecules as potential therapeutics
	1	Ateneo/DBCF (Prof.ssa Magnani) Convenzione INSTM (Industriale)	Polymeric and metal-organic frameworks for drug delivery
	1	Ateneo/DBCF (Prof.ssa Dreassi)	Synthesis of broad-spectrum antiviral compounds for treatment of emerging viruses
	1	Ateneo/DBCF (Prof.ssa Dreassi)	ADME and pharmacokinetic studies on antiviral molecules
	1	Ateneo/DBCF (Prof.ssa Sinicropi)	Design of Solar Energy Conversion systems based on the use of bio-sensitizers
	1	Ateneo/DBCF (prof. Campiani)	Development of new enzyme inhibitors
Posti con borsa finanziata dal Dipartimento (Dipartimento di Eccellenza)	1	DBCF DDE	Development of photoactivatable molecules based on a technological platform powered by QM/MM simulations.



Posti senza borsa	2
Tipologia graduatoria	<p>1 GRADUATORIA PER LE BORSE A PROGETTO SUGGERITO O LIBERO E POSTI SENZA BORSA</p> <p>1 GRADUATORIA SINGOLA PER BORSA FINANZIATA SU FONDI DIPARTIMENTO DI ECCELLENZA</p>
Documenti richiesti ai fini della valutazione (da allegare alla domanda online, oltre quelli obbligatori)	<p>Curriculum vitae et studiorum obbligatoriamente firmato ai sensi del D.P.R. 445/ 2000, comprendente il curriculum vitae et studiorum e contenente</p> <ul style="list-style-type: none"> • dati anagrafici del candidato • indicazione del titolo di accesso conseguito (o da conseguire entro il 31 ottobre 2020) in Italia (tipologia di laurea – vecchio ordinamento/specialistica/magistrale; denominazione del corso laurea); • indicazione del titolo di accesso conseguito (o da conseguire entro il 31 ottobre 2020) all'estero (tipologia del titolo, almeno quadriennale, – Bachelor's degree/Master's degree;); • indicazione dell'ente che ha rilasciato (o che rilascerà) il titolo • elenco degli esami con relative votazioni – solo per titoli conseguiti in Italia • data di conseguimento del titolo e votazione finale o data prevista di conseguimento del titolo (entro il 31 ottobre 2020). • eventuale lista delle pubblicazioni • competenze linguistiche, tecniche ed informatiche • altre capacità e competenze • comunicazioni del candidato. <p>I candidati che hanno conseguito (o conseguiranno entro il 31 ottobre 2020) il titolo accademico estero (di durata almeno quadriennale) devono inoltre presentare online:</p> <ul style="list-style-type: none"> • transcript - certificato del titolo con elenco di esami e votazioni - con la traduzione in italiano o in inglese; • Diploma supplement (se posseduto). <p>Tutti i candidati devono inoltre presentare nella procedura on-line:</p> <ul style="list-style-type: none"> • Progetto di ricerca in lingua inglese;
	<ul style="list-style-type: none"> • Lettere di referenze (non più di due) di docenti universitari e/o professionisti della ricerca italiani e internazionali; le lettere di referenze NON dovranno essere presentate dal candidato, ma il candidato dovrà fornire in fase di iscrizione gli indirizzi mail dei referenti • Abstract tesi di Laurea Magistrale/Specialistica/Vecchio ordinamento o titolo estero equivalente • Certificazione, se posseduta, di conoscenza della lingua inglese di livello B2; • Copia di ogni altro documento ritenuto utile per la valutazione dell'ammissibilità del titolo <p>L'idoneità del titolo estero viene accertata dalla Commissione esaminatrice dell'esame di ammissione nel rispetto della normativa vigente in materia e degli accordi internazionali in materia di riconoscimento dei titoli per il proseguimento degli studi</p> <p>La conoscenza della lingua inglese di livello B2, se non certificata, verrà accertata dalla Commissione esaminatrice.</p>



	<p>La mancanza di uno tra: progetto di ricerca, lettera di referenza o abstract della tesi comporterà la non ammissione del candidato alla prova orale.</p>
Sito web di approfondimento	<p>https://www.dbcf.unisi.it/it/didattica/post-laurea/dottorati-di-ricerca/dottorato-di-ricerca-chemical-and-pharmaceutical-scienc-0</p>
Modalità di selezione	<p>Valutazione titoli Prova orale Prova di lingua inglese</p>
Requisito di accesso	<p>Tutte le lauree magistrali</p>
Modalità di svolgimento delle prove	<p>Il Punteggio minimo per l' idoneità è 60/100</p> <p>Valutazione titoli. Durante la valutazione non è permessa la presenza dei candidati. Punteggio minimo per ammissione alla prova orale: 20/40</p> <p>Prova orale: è volta a valutare la preparazione di base acquisita, la capacità e l'attitudine del candidato alla ricerca scientifica.</p> <p>La prova di lingua inglese è contestuale alla prova orale e consiste nella lettura e traduzione immediata di un testo scientifico in inglese. Punteggio minimo per superamento della prova orale e prova di lingua inglese: 40/60</p> <p>I risultati di ciascuna prova devono essere affissi presso la sede del dottorato e devono essere comunicati ai partecipanti a cura della commissione esaminatrice</p>

Any increase in the number of scholarships or integration of this decree shall be notified through publication of the related acts on the [36th cycle](#) webpage, under the relevant doctoral programme.

ART. 2 - ADMISSION REQUIREMENTS

2.1. All those holding the following academic qualifications, without age or nationality restrictions, may apply for admission to the doctoral programme: *Diploma di Laurea* awarded prior to Ministerial Decree 509/99 or *Laurea Specialistica* awarded pursuant to Ministerial Decree 509/99 or *Laurea Magistrale* awarded pursuant to Ministerial Decree 270/04 or equivalent academic qualification awarded abroad. The

qualification awarded abroad must be comparable for level, nature, duration, content and academic rights (access to other courses) to the Italian qualification, and must have been declared equivalent by the appropriate academic authorities, also within the framework of interuniversity agreements for cooperation and mobility. In this case the applicant must indicate, as the date in which the qualification was awarded, the date in which the equivalence was recognized and the name of the Italian University that issued the provision. In the absence of said equivalence, the suitability of the foreign qualification shall be ascertained by the Selection Committee, also on the basis of indications provided by the appropriate University offices and pursuant to current applicable legislation in Italy and in the country in which it was awarded, as well as existing international agreements regarding the recognition of qualifications for continuing studies.

2.2. All those holding the qualification required for admission to the doctoral programme by 31 October 2020 may apply.

2.3. The university administration can at any time, through reasoned provision, exclude the candidate from the selection procedure should it be found that he/she does not meet the requirements for admission, as set out in this notice.

Academic qualification awarded abroad

The academic qualification completed abroad, of at least four-year duration, must be a second cycle degree pursuant to the university regulations in the country in which it was awarded and must allow admission to doctoral programmes in that country.

Applicants with academic qualifications awarded abroad must attach the following to the online application: certificate of the academic qualification with the list of examinations and marks (a transcript of records) - in Italian or English, or translated into Italian or English and a copy of any document of use in evaluating the suitability of the qualification (e.g. Diploma supplement, curriculum, Declaration of Value). Candidates may at any time be called upon to integrate the documentation submitted in order to verify that they meet the admission requirements.

Candidates holding a foreign academic qualification are admitted to the selection procedure with reserve and may be excluded from the doctoral programme should it be found that they do not meet the admission requirements of this call for applications. Successful applicants must submit the documentation under art. 5.

The university administration may exclude applicants at any time on the grounds of ineligibility.

ART. 3 - APPLICATION

Applications may be submitted online starting at 10am (Central European Time) on 25 June 2020 and no later than 2pm (CET) on 24 July 2020 using the special on-line application procedure available at <https://segreteriaonline.unisi.it> . Follow the tutorial and application instructions for the relevant doctoral programme available at <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo>. Candidates must follow the relevant steps in the tutorial and the “application instructions”, depending on whether or not they are already registered on the <https://segreteriaonline.unisi.it> portal and therefore on whether or not they hold the login credentials.

The "Documents requested for assessment" indicated in the specific table (under art. 1 of the call for applications for admission to the doctoral programme) must be uploaded through the online procedure as PDF files.

As confirmation that the application has been registered, an automatic “Application memo” will be issued.

The application form is automatically sent to the University when the procedure at <https://segreteriaonline.unisi.it> has been completed. Applicants are therefore not required to send or deliver documentation to the University offices.

Candidates may apply to more than one selection procedure.

ART. 4 ADMISSION EXAM AND SELECTION COMMITTEE

4.1. The exam dates and composition of the selection committee shall be published on the webpage <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo> (select the Doctoral Research programme of interest) at least 15 days before exams take place. Publication serves as official notification, and **candidates shall receive no personal communication, nor notifications regarding exams.**

4.2. The exams, which aim to assess the candidate's aptitude for scientific research, will take place as indicated in the specific table of each doctoral programme. To sit the exam, candidates must show the valid identification document (ID card, passport, driver's license) uploaded during the application process. Considering the current health emergency, interviews may be conducted online using GMeet. Procedures shall be indicated on the webpage <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo> under the individual doctoral research programmes. In this case, candidates must use a webcam to enable identification by the Selection Committee, be available at the personal address indicated during the registration procedure, on the day of the oral exam, in accordance with the calendar indicated in the programme details sheets. The Committee may set a specific time for the start of the interview, in agreement with the candidate.

For identification purposes and, on pain of exclusion from the selection procedure, candidates must identify themselves before interview by showing the identity document which was sent in annex to the application.

Failure to provide a personal address, to connect online, to present on the day or at the agreed time, or failure to present a valid identity document pursuant to the previous paragraph constitutes **cause for exclusion from the selection procedure.**

The University declines all responsibility for any technical difficulties that may hinder the regular completion of the interview process.

Interviews, even those held remotely, are open to the public.

4.3. The selection committee shall consist of at least three members of the permanent teaching staff, and may comprise up to two experts, even foreign ones, selected from institutes and public or private research centres. It shall be nominated by the Rector, after approval by the Academic Board. The evaluation criteria are established ahead of time by the Selection Committee in a plenary session.

4.4. The administration cannot be held responsible for any lack of communication due to an error in the address indicated by the candidate or failure to notify the administration in due time of a change in the address indicated in the application form, nor for any postal errors or telegraphic malfunctions that are not attributable to the University Administration itself.

ART. 5 – RANKING AND ENROLMENT

5.1. The Rector's Office shall approve the selection acts and rankings and shall issue a decree regarding the admission of candidates.

The merit ranking of suitable applicants and the winners (with or without a scholarship) shall be published at <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo> under the relevant doctoral programme.

Position in the ranking is based on the candidate's total score after assessment of the CV, qualifications, the project and any tests; in the case of equal merit, preference will be accorded to the youngest candidate. Places shall be assigned in accordance with the merit ranking.

Publication serves as official notification. **Winners shall receive no personal communication regarding the final ranking.**

Should candidates position themselves suitably in more than one doctoral research programme ranking, they must choose one programme only.

The doctoral programme has a three year duration and begins 1 November 2020.

5.2. Winners with or without a scholarship must enrol, on pain of forfeiture, within the time frame published at <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo> under the relevant doctoral research programme.

Should successful applicants fail to enrol or forfeit their place, the next person in the ranking shall be admitted. The table below reports the dates on which waitlisted applicants may be awarded a place due to ranking adjustments:

	PUBLICATION DATE	DEADLINE FOR ENROLMENT
I RANKING ADJUSTMENT	5 OCTOBER 2020	BY 1pm on 7 OCTOBER 2020
II RANKING ADJUSTMENT	12 OCTOBER 2020	BY 1pm on 14 OCTOBER 2020
III RANKING ADJUSTMENT	19 OCTOBER 2020	BY 1pm on 21 OCTOBER 2020

The list of replacement candidates is notified through the same procedure adopted for the final ranking.

Should the candidate forfeit his/her place or fail to enrol, the next candidate in the ranking list shall be assigned a place in accordance with the dates indicated above. After these deadlines, in any case no later than 31 December, adjustments are possible only after approval by the academic board.

5.3. Students cannot simultaneously enrol on first or second cycle degree programmes, postgraduate schools, doctoral programmes or university Masters, even where allowed under their respective regulations.

For other forms of incompatibility not mentioned herein, please refer to the current regulations.

5.4. Simultaneous attendance is permitted only in the case of a postgraduate school in the area of medicine and a doctoral research programme. For those enrolled in both programmes, the duration of the doctoral programme shall decrease to a minimum of two years (art. 19, Law n. 240/2010) in accordance with the following general criteria:

- The postgraduate student must have been awarded a place in the doctoral programme at the same university in which he/she is attending postgraduate school.
- Simultaneous attendance may be arranged during the last year of postgraduate studies and must be compatible with the activities and duties of the Postgraduate School, subject to approval by the School's council.
- the doctoral programme's academic board may approve any request for reduction after assessing research activities already completed during postgraduate specialization in the area of medicine, as

certified buy the school's council.

d) During the year of simultaneous attendance, the specializing postgraduate student cannot receive a doctoral scholarship.

5.5. Winners (with or without a scholarship) must submit their request for enrolment, **no later than the deadline indicated under par. 5.2 using the dedicated online enrolment procedure** available at <https://segreteriaonline.unisi.it> following the “enrolment instructions”, the tutorial available at www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo and attaching all the documentation indicated in the page above.

5.6. Enrolment is confirmed on payment of fees through the **PagoPA system** (art. 5 of Code for Digital Administration and Legislative Decree 179/2012).

An enrolment receipt may be printed out at the end of the online procedure.

Successful applicants who do not complete the procedures above by said deadlines shall be considered to have withdrawn.

Enrolment is conditional, pending verification that the student meets programme admission requirements.

ART. 6 – APPLICANTS WITH FOREIGN ACADEMIC QUALIFICATIONS

Candidates who meet application requirements and hold a **foreign academic qualification**, of at least four-year duration, which has **not yet been declared equivalent (*equipollente*) by an Italian university**, must also attach the following, in digital format, to the online application:

- copy of the original degree awarded or certificate of the qualification issued by the awarding university.

In the case of a qualification awarded **outside the EU**, candidates must also submit a copy of the **Declaration of Value issued by the appropriate Italian diplomatic offices abroad**. The **Declaration of Value** must clearly indicate that the academic qualification allows access to doctoral programmes in the country where it was awarded.

Should the applicant not have a Declaration of Value, this and the original or authenticated copies of any other useful documentation must be presented to the University of Siena Doctoral Programmes Office (*Ufficio per il dottorato di ricerca*) **within six months from the official start of the programme**.

Candidates who do not submit the documentation relating to the foreign qualification will be admitted to the doctoral programme “conditionally” and will be excluded from the doctoral programme if they do not present the documentation within six months from the official start of the programme. They shall also be excluded if, on assessment of the documents, the qualification does not meet the requirements for admission to the programme.

Should the abovesaid documentation not be submitted or not certify the validity of the qualification for accessing academic programme similar to a PhD (*Dottorato di ricerca*) in the country in which it was awarded, the candidate forfeits his/her place and must return any doctoral scholarship disbursements.

ART. 7 – NON-EU APPLICANTS

Non-EU applicants who are eligible for enrolment will be admitted to the programmes provided that they comply with the current provisions concerning entry and stay in Italy and are legally residing in Italy (art. 39, par. 5 of Legislative Decree no. 286 dated 25.07.1998, as modified by art. 26 of Law no. 189 dated 30 July 2002). They must therefore deliver a copy of their valid passport and residence permit issued by the competent authorities. If resident abroad, instead, they must provide a copy of the passport, of the entry

visa and a copy of the residence permit for study purposes issued by the competent *Questura* (Police Authority).

ART. 8 - SCHOLARSHIPS

The annual scholarship amounts to Euro 15,343.00 and is subject to INPS social security contributions to the separate national insurance and pension scheme (*gestione separata*).

In the case of scholarships funded by bodies external to the university, public or private, the scholarship shall be awarded only in the presence of the corresponding funding.

Scholarships for undertaking specific research activities, bind the recipient to conducting said activity and to respect any requests.

The scholarship covers the entire duration of the programme and shall be paid out in deferred monthly instalments. Should the doctoral student forgo the scholarship or withdraw from the doctoral programme, the University shall interrupt scholarship payments.

The scholarship is not compatible with other grants of any kind, except those awarded by national or foreign institutions to supplement the recipient's training or research activity.

Those who have already been in receipt of a scholarship, even in part, for attending a doctoral programme cannot receive one a second time.

ART. 9 - UNIVERSITY FEES

9.1. At the time of enrolment, doctoral students without scholarship must pay the annual Regional tax amounting to € 140 and the € 16 virtual stamp duty.

Doctoral students in receipt of a scholarship must pay the annual university fee of € 340.00, the DSU (Right to University Study) Regional Tax amounting to € 140, as well as a € 16 virtual revenue stamp, to be paid at the time of enrolment.

9.2. Students with certified disability greater or equal to 66% are exempt from payment of university fees and the regional tax.

ART. 10 - DUTIES OF DOCTORAL STUDENTS

The doctoral programme entails exclusive, full-time commitment. Students are required to diligently carry out the activities related to the approved research project and to submit to the Academic Board, at the end of each year, a report on the activities and research performed and, at the end of the programme, a dissertation with original contributions.

Following the evaluation of activities performed by the student, the Academic Board of the doctoral programme shall decide on the admission of the doctoral student to the subsequent year. Given a valid reason, the Academic Board also has the authority to exclude candidates from progressing to the following academic year.

ART. 11 – AWARDING OF THE DEGREE

The title of *Dottore di Ricerca* (PhD) is awarded once the doctoral candidate passes the final exam. The examination consists of an oral exam during which the student will defend his/her dissertation. The Examining Committee is appointed in accordance with the University Regulations governing doctoral programmes. Doctoral dissertations must be filed by the doctoral students themselves, in electronic format, in the University Repository: USiena-air <http://usiena-air.unisi.it/>, to be filed in the national libraries.

ART. 12 - RELEVANT LEGISLATION

For any matters not explicitly covered by this selection announcement, the University shall refer to the following Italian legislation:

- Art. 4 of Law no. 210 dated 3 July 1998;
- Ministerial Decree no. 45 dated 8 February 2013
- [University regulations governing doctoral programmes.](#)

ART. 13 - PROCESSING OF PERSONAL DATA

The University shall process personal data in printed or electronic format for the purpose for which they were requested in accordance with the European Regulation (EU) 2016/679 (General Data Protection Regulation).

ART. 14 - PUBLICATION

This call for applications shall be published at <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo> and advertised online on the University of Siena, Euraxess and Ministry websites. Furthermore, this notice and rankings shall be published on the official University registry at <http://albo.unisi.it>

ART. 15 - FINAL PROVISIONS

The selection procedure manager is Dott. Raffella Todaro, Head of the Doctoral Programmes Office (Ufficio per il Dottorato di Ricerca) at the University of Siena.

The University assumes no responsibility should the Doctoral Research Programme not receive the required authorization for renewing accreditation. Therefore, when applying, candidates shall declare that they are aware of this possibility, thereby freeing the University of Siena from any liability and formally waiving any claims.

Any changes or additions to the contents of this announcement will be published on the website <https://www.unisi.it/ricerca/dottorati-di-ricerca/dottorati-di-ricerca-xxxvi-ciclo>