<table>
<thead>
<tr>
<th><strong>PhD programme “Regionale pegasus” joint with the University of Pisa, University of Firenze and University of Siena</strong></th>
<th><strong>SMART INDUSTRY</strong></th>
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<tbody>
<tr>
<td><strong>President:</strong></td>
<td>Prof. Andrea Caiti</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Department of Ingegneria dell’Informazione – Via G. Caruso, 16 56122</td>
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</tbody>
</table>

**Admission requirements:**

- Master’s degree in
- LM-17 Fisica
- LM-18 Informatica
- LM-20 Ingegneria aerospaziale e astronautica
- LM-21 Ingegneria biomedica
- LM-22 Ingegneria chimica
- LM-25 Ingegneria dell’automazione
- LM-26 Ingegneria della sicurezza
- LM-27 Ingegneria delle telecomunicazioni
- LM-28 Ingegneria elettrica
- LM-29 Ingegneria elettronica
- LM-30 Ingegneria energetica e nucleare
- LM-31 Ingegneria gestionale
- LM-32 Ingegneria informatica
- LM-33 Ingegneria meccanica
- LM-34 Ingegneria navale
- LM-35 Ingegneria per l’ambiente e il territorio
- LM-40 Matematica
- LM-44 Modellistica matematico-fisica per l’ingegneria
- LM-53 Scienza e ingegneria dei materiali
- LM-66 Sicurezza informatica
- LM-69 Scienze e tecnologie agrarie
- LM-73 Scienze e tecnologie forestali ed ambientali
- Master’s degree (D.M. 509):
  - 20/S (specialistiche in fisica)
  - 23/S (specialistiche in informatica)
  - 24/S (specialistiche in informatica per le discipline umanistiche)
  - 25/S (specialistiche in ingegneria aerospaziale e astronautica)
  - 26/S (specialistiche in ingegneria biomedica)
<table>
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<tr>
<th>Positions available 13</th>
<th>of which</th>
<th>10 with grant</th>
<th>3 without grant</th>
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<tbody>
<tr>
<td>2</td>
<td>grant financed by University of Pisa</td>
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<td>1</td>
<td>grant financed by University of Siena</td>
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<td>1</td>
<td>grant financed by University of Firenze</td>
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<td>3</td>
<td>grants financed by Regione Toscana funded on the POR FSE 2014-2020 resources, in the frame of Tuscan Regional project Giovanisi (<a href="http://www.giovanisi.it">www.giovanisi.it</a>), aiming at enhancing young people's autonomy. (with 6 months stay abroad)</td>
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<td>1</td>
<td>Regione Toscana funded on the POR FSE 2014-2020 resources, in the frame of Tuscan Regional project Giovanisi (<a href="http://www.giovanisi.it">www.giovanisi.it</a>), aiming at enhancing young people's autonomy on subject “Strategy development for the introduction of metal-based Additive Manufacturing in industry production” (with 6 months stay abroad)</td>
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<tr>
<td>1</td>
<td>grant financed by Regione Toscana funded on the POR FSE 2014-2020 resources, in the frame of Tuscan Regional project Giovanisi (<a href="http://www.giovanisi.it">www.giovanisi.it</a>), aiming at enhancing young people's autonomy on subject “Information and Communication Technologies for energy management in smart industries” (with 6 months stay abroad)</td>
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<td>grant financed by Regione Toscana funded on the POR FSE 2014-2020 resources, in the frame of Tuscan Regional project Giovanisi (<a href="http://www.giovanisi.it">www.giovanisi.it</a>), aiming at enhancing young people's autonomy on subject “Digitalization of the production and supply chain in Tuscany Fashion industry” (with 6 months stay abroad)</td>
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### Selection criteria:

| **Curriculum** | The curriculum, signed and accompanied by a copy of a valid identification document, shall be uploaded only during the application process. The curriculum must provide information about the candidate’s academic qualifications as well as his/her professional and research experience. **The candidate shall attach all the documents useful for the assessment of his/her curriculum.**

Candidates must upload the list of passed exams, the Master thesis or parts of it, in particular the abstract, published papers, etc., either in Italian or in English; the list of additional study or research experiences, in Italy or abroad, if any prizes or recognitions.

**Minimum grade:** 42 out of 60 |

| **Interview** | The list of candidates admitted to hold the interview shall be published at [http://dottorato.unipi.it/ “Admissions” at least five days before the interview.](http://dottorato.unipi.it/)

The interview will assess the candidate’s knowledge, her/his aptitude for research, openness to academic experiences in Italy and abroad and an interest in scientific deepening. During the interview, the Selection Boards will assess the English Language Proficiency Level.

**Date 07th September 2018 Time: 9,30 a.m. (Italian Time) with the possible prolongation to the following day/s (excluding Saturdays and/or Sundays).**

**All candidates shall be present on the first day of the meeting to ascertain the interview schedule** (except for the video conference interview)

**All candidates must be present on the first day of meetings to find out when the interview has been scheduled** (not for interviews in video conference)

**Venue:** Department of Ingegneria dell’Informazione via Caruso, 16 - PISA

Candidates must also demonstrate, during the interview, to have an adequate proficiency level of English (equivalent to at least level B2). Furthermore, the candidates must certify the abovementioned proficiency before accepting the "Pegaso" study grant by means of:

1. Internationally recognized certification (eg. Cambridge English Language Assessment, TOEFL, IELTS) at the B2 level of the Common European Framework for Languages (cfr. [http://www.cli.unipi.it/files/equipollenze/inglese_equip?lang=it](http://www.cli.unipi.it/files/equipollenze/inglese_equip?lang=it));

2. Certification of a Language Centre of the any Italian or foreign
university;
3. Certification issued by the Language Centre (CLI) of Pisa University, which, upon appointment, provides monthly sessions of language proficiency certification.

**Minimum grade: 24 out of 40**

**Webconference:** **YES**
Candidates who choose the videoconference will have to send the filled out form (Attachment D) to concorsodottorato@unipi.it **within the deadline of the announcement.** It is also mandatory to send the letter (Attachment D1) duly signed by the Rector of a University, or by the Director of a Department, or by the Responsible of an official Institution (e.g. Embassy, Consulate). In particular, the letter must contain the name of a professor or public official who will be present during the interview, thus ensuring its regularity.

| Guidelines for the presentation of the PhD Research project | Required: **YES**
---|---
Guidelines for the presentation of the PhD Research project | Required: **YES**
Guidelines for the presentation of the PhD Research project | to be evaluated together with the curriculum and illustrated in the interview
Guidelines for the presentation of the PhD Research project | The candidate must upload the research project during the online application process **within the deadline of the announcement.**
Guidelines for the presentation of the PhD Research project | The research project will be evaluated together with the curriculum and/or discussed by the candidate during the interview in order to highlight his/her project planning capabilities.
Guidelines for the presentation of the PhD Research project | The research project, to be submitted in English language, must consists of maximum three pages, bibliography included, and it must contains: objective of the research project; foreseen methodology to reach the objective; expected impact.

**INFO:**
**Overview and objectives of the PhD course:**
The Universities of Florence, Pisa and Siena jointly propose the Ph.D. program “Smart Industry”, focused on the paradigm of Industry 4.0 (I4.0). The Doctorate will have research and didactic initiatives within the 9 interdisciplinary enabling technologies of I4.0 (Advanced Manufacturing; Additive Manufacturing; Augmented Reality; Simulation; Horizontal/Vertical Integration; Industrial Internet; Cloud; Cybersecurity; Big Data & Analytics). The goal is to train young researchers able to investigate and propose innovative industrial systems and processes whose competitive leverage stems from the integration of advanced components and methods of information processing and management. New opportunities of cross-fertilization and research will rise from the cultural roots of Industrial Engineering, Information and Communication Technologies and Computer Science; these opportunities will have value in their own rights and through their mutual integration.

The Doctorate is proposed jointly by the three Universities in
synergy with the existing initiatives on industrial research already established in the Tuscany area. A strong research collaboration with the industrial sector will be actively promoted, focusing on those areas in which the I4.0 paradigm may represent the fundamental innovation factor in production processes and/or production and supply chains, leading to new products, services and business models.

The methodology will consist in a didactic offer to establish the scientific basis, an individual specialization in sectors with adequate scientific and research depth, an aggregation of the various research themes toward the I4.0 objectives.

**Website:**
not available because PhD is a new Course