<table>
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<tr>
<th><strong>Regione Toscana</strong> PhD programme “Pegaso” joint with the University of Pisa, University of Firenze and University of Siena</th>
<th>SMART INDUSTRY</th>
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<tr>
<td><strong>President:</strong></td>
<td>Prof. Andrea Caiti</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Department di Ingegneria dell’Informazione – Via G. Caruso, 16 – 56122 PISA</td>
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Master’s Degree comparable Degrees under the Ministry Decree of 9 July 2009

### Outcome of the selection procedure:
- Ranking of candidates for the whole PhD programme

| PhD Positions Available | Positions available 19 | of which 14 with grant
| --- | --- | ---
| Supernumerary positions | | 1 with agreement “con contratto di apprendistato di alta formazione”
| Details: | | 4 without grant

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<tr>
<th>Details:</th>
<th>6 grants financed by Università di Pisa</th>
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| | 3 grants financed by Regione Toscana “Pegaso — Year 2019 POR FSE 2014/20” (with 6 months stay abroad)
| | 1 grant financed by Regione Toscana “Pegaso — Year 2019 POR FSE 2014/20” on subject “Machine Learning on the Edge for Industry 4.0 applications” with 6 months stay abroad and it is mandatory to carry out an experience of at least 3 months of training / research in an applicative context, such as a company, a public research institution, another public institution (non-university)
| | 1 grant financed by Regione Toscana “Pegaso — Year 2019 POR FSE 2014/20” on subject “Reconfigurable smart drones for survey, inspection and intervention” with 6 months stay abroad and it is mandatory to carry out an experience of at least 3 months of training / research in an applicative context, such as a company, a public research institution, another public institution (non-university)
| | 1 grant financed by Regione Toscana “Pegaso — Year 2019 POR FSE 2014/20” on subject “Information and Communication Technologies in the aerospace industry” with 6 months stay abroad and it is mandatory to carry out an experience of at least 3 months of training / research in an applicative context, such as a company, a
<table>
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<tr>
<th>Grant/Funding Source</th>
<th>Description</th>
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<tr>
<td>1 grant financed by Department of Information Engineering of University of Pisa</td>
<td>on subject “Augmented e Virtual Reality (Progetto CrossLab)”</td>
</tr>
<tr>
<td>1 grant financed by Department of Information Engineering of University of Pisa</td>
<td>on subject “Additive Manufactoring (Progetto CrossLab)”</td>
</tr>
<tr>
<td>1 agreement between Società CEDEL – cooperative sociale educative ELIS and</td>
<td>Università di Pisa: “contratto apprendistato di alta formazione”</td>
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**Selection criteria:**

**Curriculum**

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

The candidate who intends to submit to the evaluation of the Selection Board any document related to his/her academic records held at the University of Pisa, must make an explicit request of acquisition “through office” in the aforementioned curriculum.

**Minimum grade:** 42 out of 60

The list of candidates who are invited to take an interview will be published at [http://dottorato.unipi.it/](http://dottorato.unipi.it/) “Admissions” should take place at least five days before the interview.

**Interview**

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 verify candidates’ English Language proficiency. Furthermore, candidates are required to provide a proficiency certificate (the minimum required is a B2 level or comparable) before the acceptance of the PhD grant “Pegaso”.

Accepted certifications are:

1. international recognized certificate (e.g. Cambridge English Language Assessment, TOEFL, IELTS) of B2 level in the Common European Framework for Languages (cfr. [http://www.cli.unipi.it/files/ EQUIPOLLENZ E/ INGLESE_EQUIP?LANG=IT](http://www.cli.unipi.it/files/equipollenze/inglese_equip?lang=it));
2. certificate of the University Language Centre of any Italian or foreign University.
3. certificate issued by the University of Pisa Language Centre (CLI), that will provide dedicated sessions of language certification published at [http://dottorato.unipi.it/index.php/it/](http://dottorato.unipi.it/index.php/it/).

**Minimum grade:** 24 out of 40

The test schedule (where applicable) and venue, will be published the 30 of May 2019 at [http://dottorato.unipi.it/](http://dottorato.unipi.it/) - “Admission and enrolment”.

**Web conference:** YES
Candidates wishing to attend the videoconference are required to upload the form in attachment D, during online procedure. The Selection Boards will examine any request received after 29 May 2019 and will evaluate their acceptance, also considering the required technical times for the videoconference interview organisation.

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<th>Guidelines for the presentation of the PhD Research project</th>
<th>Required: <strong>YES</strong> to be evaluated together with the curriculum and to be illustrated at the interview</th>
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<tr>
<td>The candidate must upload the research project during the online application process by the <strong>deadline of the announcement</strong>. In order to highlight the capacity to carry out the project, the research project will be evaluated together with the curriculum and the candidate discuss it during the interview.</td>
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**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.