## PhD programme

**ENERGY, SYSTEMS, TERRITORY AND CONSTRUCTION ENGINEERING**

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### President:

Prof. Paolo Di Marco

### Department:

Department of Ingegneria dell’Energia, dei sistemi, del Territorio e delle Costruzioni - Largo Lucio Lazzarino 56122 PISA

### Admission requirements:

Any Master’s degree

### Outcome of the selection procedure:

Ranking of the research project in “Modelling and validation of hybrid powertrain models and related experimental activities”

### PhD Positions Available

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<thead>
<tr>
<th>Positions available</th>
<th>1</th>
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<td>of which:</td>
<td>1 with grant</td>
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### Details:

1 grant financed by Toyota material handling Manufacturing Italy SpA on subject “Modelling and validation of hybrid powertrain models and related experimental activities”

### Selection criteria:

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.

**Minimum grade:** 18 out of 30

### Written examination

The written test is aimed at verifying the educational prerequisites. The candidate may hold the test either in Italian or English. The written test consists in writing an essay on an assigned topic, in a maximum time of four hours.

**Date:** 3rd September 2018  **Time:** 9.00 a.m. (Italian Time)

**Venue:** Department of Ingegneria dell’Energia, dei sistemi, del Territorio e delle Costruzioni (Biblioteca “L. Poggi”, Largo L. Lazzarino 1 – 56122 Pisa)

**Minimum grade:** 18 out of 30
**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.

**Date** 5th September 2018  **Time:** 9.00 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.

**Venue:** Department of Ingegneria dell’Energia, dei sistemi, del Territorio e delle Costruzioni (Biblioteca “L. Poggi”, Largo L. Lazzarino 1 – 56122 Pisa)

**Minimum grade:** 18 out of 30

**Webconference:** NO

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**Guidelines for the presentation of the PhD Research project**

Required: NO

**INFO:**

**Overview and objectives of the PhD course:**

The training program is aimed to provide the PhD students with a scientific education suitable to develop research activities of high qualification in the area of Energy, Systems, Territory and Constructions Engineering.

The research program foresees an organic collection of training activities in order to define the appropriate and qualified profiles to deal with the complexity of engineering for the sustainable development in innovative fields of great international relevance, that are of interest for multidisciplinary systems for energy, land and buildings.

Among such systems are currently of great importance those named "smart cities" with a homogeneous methodological approach which is originated and is nourished through the cultural and research experiences present in the Department.

Another technical-scientific topic of great relevance today is energy saving in buildings, which involves skills of energetic, electricity, management, architectonic and civil buildings nature.

The multiplicity of scientific skills and of activities research and the multidisciplinary nature of the department combined with the variety of laboratories and with an extensive network of international cooperation, provide a stimulating environment for the PhD students, for the study and the development of research.

The departmental structure also ensures the sustainability for allowing PhD students to spend study periods abroad or in other Italian qualified structures.

**Website:**

[https://www.destec.unipi.it/didattica/corso-di-dottorato](https://www.destec.unipi.it/didattica/corso-di-dottorato)