Motivation and objectives of the research in this field

The research field Telecommunications is focused on design and implementation of devices, systems, networks (Internet, wireless networks, optical networks), services, and applications for the transmission and the processing of any type of signals (including audio, video, RADAR) and multimedia information. Particular attention is given to advanced networks and transmission systems for mobile and fixed users and to remote sensing applications aiming at earth observation and sub-soil exploration.

The strong connection with the leading companies (within and outside the telecommunication market) makes the mix between theory and application one of the strength of the research field Telecommunications at Politecnico di Milano.

http://www.deib.polimi.it/eng/telecommunications

Methods and techniques that will be developed and used to carry out the research

The research is carried out with the support of a supervisor and of his research group. Seminars and courses are offered to encourage an interdisciplinary approach to the research. Computer simulation and/or laboratory activities are always required to finalize the research.

Educational objectives

The doctoral program offers advanced training in the hot topics explored by the scientific community and industry.
A period of study within one among the worldwide most recognized research institutions is supported by the doctoral school and the supervisor.

http://dottoratoit.deib.polimi.it/

**Job opportunities**

Careers in the leading telecommunication, remote sensing, multimedia companies are facilitated by the strong connection between the academic and industrial research. Post doc positions in the university are frequently offered.

**Composition of the research group**

- 11 Full Professors
- 19 Associated Professors
- 8 Assistant Professors
- 41 PhD Students

**Name of the research directors**

Any faculty member can act as research advisor

**Contacts**

Prof. Mario Martinelli
e-mail: mario.martinelli @polimi.it
tel. +39 02 2399 3676
http://www.deib.polimi.it/eng/people/details/60424

---

### Additional support - Financial aid per PhD student per year (gross amount)

<table>
<thead>
<tr>
<th></th>
<th>1st year</th>
<th>2nd year</th>
<th>3rd year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing - Foreign Students</strong></td>
<td>1500.0 € per student</td>
<td>1000.0 € per student</td>
<td>1000.0 € per student</td>
</tr>
</tbody>
</table>

max number of financial aid available: 2, given in order of merit..

<table>
<thead>
<tr>
<th></th>
<th>2nd year</th>
<th>3rd year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing - Out-of-town residents</strong> (more than 80Km out of Milano)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Additional information:** educational activity, teaching assistantship, computer availability, desk availability, any other information

**INCREASE IN THE SCHOLARSHIP FOR STAYS ABROAD:** Euro 566.36 per month, for up to 6 months

**EDUCATIONAL ACTIVITIES** (purchase of study books and material, including computers, funding for participation in courses, summer schools, workshops and conferences): financial aid per PhD student per year

2nd year: euros per student (1534)
3rd year: euros per student (1534)
TEACHING ASSISTANSHIP: availability of funding in recognition of supporting teaching activities by the PhD student.
There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations.

COMPUTER AVAILABILITY:
1st year: Yes
2nd year: Yes
3rd year: Yes

DESK AVAILABILITY:
1st year: Yes
2nd year: Yes
3rd year: Yes