



# PhD in FISICA / PHYSICS - 39th cycle

## THEMATIC Research Field: PHD IN PHYSICS

### Monthly net income of PhDscholarship (max 36 months)

**€ 1195.5**

In case of a change of the welfare rates during the three-year period, the amount could be modified.

### Context of the research activity

<b>Motivation and objectives of the research in this field</b>	Translation of scientific knowledge into new technology and transfer of innovation to the production system represent a needed step for many companies, also dictated by an increasingly global market. For the purpose, individuals with broad cultural background are needed. In particular, many advanced sectors of industry and research require a good knowledge in topics such as condensed matter physics, optics, laser technology and instrumentation, and nanostructured materials.
<b>Methods and techniques that will be developed and used to carry out the research</b>	The PhD Program has application-oriented character that clearly distinguishes it from PhD Programs at the Schools of Science. Candidates are also encouraged to carry out part of their research activities in contact with other research groups in their field of interest, possibly abroad.
<b>Educational objectives</b>	The aim of the PhD in Physics at Politecnico di Milano is the training of personnel with strong research capacity, able to operate in basic and applied research and development facilities, and to manage and design high-tech and innovative products and processes in various industrial sectors.
<b>Job opportunities</b>	Manager of devices, equipment and systems in large industries and companies. Designer of new components and advanced optoelectronics devices in high-tech industries as well as small innovative enterprises. Researcher in industries, universities, research centres.



<b>Composition of the research group</b>	21 Full Professors 36 Associated Professors 20 Assistant Professors 149 PhD Students
<b>Name of the research directors</b>	Cerullo, P. Laporta, P. Taroni, F. Ciccacci, L. Duò

<b>Contacts</b>
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<b>Additional support - Financial aid per PhD student per year (gross amount)</b>	
<b>Housing - Foreign Students</b>	--
<b>Housing - Out-of-town residents (more than 80Km out of Milano)</b>	--

<b>Scholarship Increase for a period abroad</b>	
<b>Amount monthly</b>	597.75 €
<b>By number of months</b>	6

<b>Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information</b>
<p><b>Educational activities</b> <i>Educational activities (purchase of study books and material, funding for participation to courses, summer schools, workshops and conferences): financial aid per PhD student per 3 years: max 4.872,90 euros per student.</i></p> <p><b>Teaching assistantship:</b> <i>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.</i></p> <p><b>Computer and desk availability:</b> <i>individual o shared use</i></p>