



# PhD in INGEGNERIA DELL'INFORMAZIONE / INFORMATION TECHNOLOGY - 41st cycle

Research Area n. 2 - Electronics

**THEMATIC Research Field: ULTRAFAST TIME CORRELATED SINGLE PHOTON COUNTING  
ARCHITECTURES AND SYSTEMS FOR BIOMEDICAL APPLICATIONS**

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

**1400.0**

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>	The aim of the research is to develop ultrafast time-correlated single photon counting architectures and systems for biomedical applications.
<b>Methods and techniques that will be developed and used to carry out the research</b>	The research will be carried out by developing theoretical models and electronics prototypes based on custom integrated circuits and discrete components.
<b>Educational objectives</b>	The training objectives of this research are those related to the electronic system design.
<b>Job opportunities</b>	The research carried out perfectly aligns with the professional requests of research centers and large electronic companies.
<b>Composition of the research group</b>	0 Full Professors 3 Associated Professors 0 Assistant Professors 4 PhD Students
<b>Name of the research directors</b>	Proff. Ivan Rech, Giulia Acconcia

## Contacts

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Additional support - Financial aid per PhD student per year (gross amount)	
Housing - Foreign Students	--
Housing - Out-of-town residents	--

Scholarship Increase for a period abroad	
Amount monthly	700.0 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<p>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.</p> <p>TEACHING ASSISTANTSHIP: availability of funding in recognition of supporting teaching activities by the PhD student.</p> <p>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.</p> <p>COMPUTER AVAILABILITY:</p> <p>1st year: Yes                  2nd year: Yes                  3rd year: Yes</p>