



PhD in SCIENZE E TECNOLOGIE ENERGETICHE E NUCLEARI / ENERGY AND NUCLEAR SCIENCE AND TECHNOLOGY - 39th cycle

PNRR 117 Research Field: STUDIO DELLE PRESTAZIONI DI RAFFREDDATORI ADIABATICI

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	
Motivation and objectives of the research in this field	The issue of reducing electricity and water consumption in releasing heat into the environment is becoming increasingly important in correspondence with the energy transition. The research activity aims to introduce innovative concepts in the design of adiabatic heat exchangers.
Methods and techniques that will be developed and used to carry out the research	Research activity is (a) theoretical and focused on simulation and optimization of adiabatic heat exchanger and (b) experimental through data acquired from commercial machines in operational environment or laboratory tests.
Educational objectives	The PhD candidate will work in a highly motivated and qualified research group ranked at the top position of the Italian university system. The PhD candidate will gain experience, knowledge and skills in cutting edge technologies in the energy conversion field.
Job opportunities	This research activity will qualify the candidate for future research positions, as well as for a highly qualified professional career in industries or organizations operating in the energy field.
Composition of the research group	5 Full Professors 7 Associated Professors 7 Assistant Professors 40 PhD Students



	40 PhD Students
Name of the research directors	Paolo Chiesa

Contacts
paolo.chiesa@polimi.it

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

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

National Operational Program for Research and Innovation	
Company where the candidate will attend the stage (name and brief description)	MITA
By number of months at the company	6
Institution or company where the candidate will spend the period abroad (name and brief description)	Non ancora definita
By number of months abroad	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<p>Educational activities: Financial aid per PhD student is available for purchase of study books and material, funding for participation in courses, summer schools, workshops and conferences, instrumentations and computer, etc. The amount is about Euro 3.100,00.</p> <p>Teaching assistantship: 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.</p> <p>Computer availability: individual use. Desk availability: individual use. Awards: Economic awards up to Euro 2500 (gross amount) per year will be recognized to the PhD candidate in case of significant contributions in the research project, subject to the evaluation of the research director.</p>