



# PhD in INGEGNERIA DEI MATERIALI / MATERIALS ENGINEERING - 37th cycle

**THEMATIC Research Field: ELECTROCHEMICAL TESTING AND AGING MECHANISMS IN BATTERIES**

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

**€ 1325.0**

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

## Context of the research activity

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|---|--|
| <b>Motivation and objectives of the research in this field</b>                          | The scope of the work is the development of testing protocols for traditional and innovative batteries. The scope includes the evaluation of new materials for batteries.  |
| <b>Methods and techniques that will be developed and used to carry out the research</b> | The research activities will include the evaluation of new materials and testing protocols in batteries. The use of electrochemical techniques and structural/morphological analyses will be part of the activities for the evaluation of the device performances. |
| <b>Educational objectives</b>   | The educational aims are: (1) amplify supported PhD research experience and favour co-operative research experience at possible partners; (2) elevate the educational experience by creating a highly-visible center for battery technology.                       |
| <b>Job opportunities</b>  | The student will acquire expertise in energy storage devices and their characterization. Job opportunities for an expert PhD in this field are expected in the private and academic sector.  |
| <b>Composition of the research group</b>  | 1 Full Professors<br>1 Associated Professors<br>2 Assistant Professors<br>8 PhD Students   |
| <b>Name of the research directors</b>   | Prof. Luca Magagnin  |



**Contacts**

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**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      | 564.01 € |
| By number of months | 6        |

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

**Confidentiality:**

since this is a thematic scholarship, the management of Confidential Information, Results and their publication is subordinate to the restrictions agreed upon with the funding company. Upon acceptance of the scholarship, the beneficiary must sign a specific commitment.

Educational activities (funding for participation in courses, summer schools, workshops and conferences) - financial aid per PhD student per year:

1st year: -

2nd year: about 1.500 euros per student

3rd year: about 1.500 euros per student

Teaching assistantship: availability of funding in recognition of supporting teaching activities by the PhD student:

There are various forms of financial of 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 regulation