POLITECNICO DI MILANO

PhD in DATA ANALYTICS AND DECISION SCIENCES - 39th cycle

PARTENARIATO PNRR Research Field: STATISTICAL LEARNING FOR GRINS PROJECT

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 research activity is concerned with the development of statistical models for predicting and evaluating the impact of investments in services and infrastructures in order to improve the accessibility and sustainability of a given area (WP2 of GRINS project - PNRR PE9 Spoke7). To this aim, it is necessary to understand how infrastructures and infostructures interact with concepts like social cohesion, inclusion, mobility, etc. •CUP: D43C22003110001 •Decreto di concessione: D.D. 1558 del 11/10/2022
Methods and techniques that will be developed and used to carry out the research	The research will focus on the set up of suitable statistical models for describing, understanding and predicting the resilience of different area, starting from the features summarized by indicators developed in WP 1 of the GRINS project. Such models will allow for scenario analysis supporting decisions and precision policies aimed at enhancing and improving the attractiveness of the different areas.
Educational objectives	The successful candidate is expected to be able to collect, analyse and manage data available or generated within the GRINS project. Moreover, the candidate is expected to support the definition of potential and limitations of the data as well as to develop knowledge and evidence from

	data itself, through the use of advanced data analytics techniques.
Job opportunities	The profile of data scientist and the applications proposed in this project are of interest to of a broad range of actors, including (but not limited to): public and private institutions devising and enforcing precision policies as well as international institutions and research centres focused on sustainability and environment protection and development.
Composition of the research group	2 Full Professors 2 Associated Professors 3 Assistant Professors 2 PhD Students
Name of the research directors	Francesca Ieva, Piercesare Secchi, Laura Sangalli

Contacts
•Prof.ssa Francesca Ieva francesca.ieva@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

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