



PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 38th cycle

PNRR_351_PUBBL_AMMIN Research Field: RE-DESIGNING RESEARCH FUNDING FOR SCIENCE

Monthly net income of PhDscholarship (max 36 months)
€ 1450.0
In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity	
<p>Motivation and objectives of the research in this field</p>	<p>Public Administrations are in charge of distributing research grants to scientists for conducting investigations in industry and academia. The National Recovery and Resilience Plan (PNRR) promoted by EU and Italy in response to the COVID-19 emergency has substantially increased the public investments in R&D. These investments will have to unlock long-term economic growth, and foster sustainable social development. The ability to identify, select and distribute the funding to research projects with the highest generative and transformative potential is evermore critical.</p> <p>Unfortunately, the procedures and rules adopted by the Public Administrations and the related Funding Agencies are based on Peer Review procedures inherited by the past, whose validity has been questioned nationally and abroad by scientists and citizens. In response to this criticism, new studies of "Science of Science Funding" have emerged, with the aim at informing and promoting a re-design of research funding practices and procedures, thanks to a collaboration among funding institutions (private and public) and scholars/experts in the studies of science, decision sciences and experimental and behavioral economics. The ultimate goal is to improve the efficiency and efficacy (=predictive validity) of funding decisions. More specifically, the studies aim at answering questions such as: i) Which personal background is ideal to review a proposal (senior/junior, specialist/generalists, scholar/practitioner, ..)? ii) How</p>



	<p>many reviewers/experts should be used? iii) How should opinions be elicited to extract more knowledge and minimize biases (criteria/ scores, calibration)? iv) What is the best way to aggregate multiple scores/criteria and multiple reviewers opinions? Should the funding be given as a bulk or in stages & milestones? How should the funding institution monitor the progress?</p>
<p>Methods and techniques that will be developed and used to carry out the research</p>	<p>The research program is rich and impact-oriented and requires using a mix of 3 methods: i) quantitative analyses of large databases of peer review evaluations (with detailed information that are normally kept confidential). ii) Lab experiments and iii) Field experiments (i.e. testing of the new practices/policies to randomized samples. The research is conducted with a team based at Polimi and in the US, and in collaboration with the largest EU-based private funding institution, Novo Nordisk Foundation, which is conducting a stream of path-breaking experimental tests in the real-field that will pave the way for subsequent adoption by Public Administration.</p>
<p>Educational objectives</p>	<p>Acquire and generate new knowledge in the area of science of science funding, decisions science and experimental/ behavioral economics. Acquire proficiency in econometric analyses of large datasets and in lab and field experiments.</p>
<p>Job opportunities</p>	<p>Academia, Research Institutions, Funding Agencies and Private Foundations, Public Administrations</p>
<p>Composition of the research group</p>	<p>1 Full Professors 1 Associated Professors 1 Assistant Professors 0 PhD Students</p>
<p>Name of the research directors</p>	<p>Prof. Chiara Franzoni</p>

Contacts
<p>chiara.franzoni@polimi.it +39-331-6493238</p>

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	725.0 €
By number of months	6

National Operational Program for Research and Innovation	
Company where the candidate will attend the stage (name and brief description)	The Novo Nordisk Foundation (NNF), Tuborg Havnevej 19, DK-2900 Hellerup, Denmark. The NNF is the largest private funding agency in Europe. It distributes approximately 500M per annum in competitive grants (almost entirely within the STEMs). In addition to being the largest private foundation in Europe, NNF is a pioneer in the studies of research funding, because it has recently committed to conduct randomized field experiments in their own grant selection for testing new approaches to research
By number of months at the company	6
Institution or company where the candidate will spend the period abroad (name and brief description)	The PhD student will spend a period of at least 6 months abroad to interact with researchers and participate in joint activities potentially foreseen in the project, according to specific needs. Indeed, the project is highly interdisciplinary, and this favors the collaboration with foreign research centers where the candidate can acquire in-depth knowledge on the theme.
By number of months abroad	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information
<p><i>Funding for educational activities: 4.900,00 Euros for three years.</i></p> <p><i>Teaching assistantship: 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><i>Desk availability: shared use Computer availability: individual use</i></p>