

MSCA PF 2023 @UniGe

Supervisor Expression of Interest

**MSCA domain
Chemistry (CHE)**

1. Andrea Basso

2. Pietro Manfrinetti

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Supervisor Expression of Interest

1.

First Name	Andrea
Last Name	Basso
Orcid ID	0000-0002-4700-1823
Other information	https://rubrica.unige.it/personale/VUZBW1xt
MSCA domain	Chemistry (CHE)
Research focus area	ERC field: PE5_17 Organic chemistry - The focus area is development of novel synthetic methodologies based on multicomponent reactions and visible-light mediated transformations
Department	Chemistry and Industrial Chemistry
Short description of the department/laboratory/ research group	The research group is internationally recognized in the area of multicomponent reactions and photochemical processes, both in batch and under continuous flow. The research group is young and dynamic and offers excellent opportunities to deepen knowledge in the field of synthetic organic chemistry. The group has access to cutting edge instruments and photochemical equipment. Many collaborations at a national and international level are available, both with academia and industry
Candidate fellows must send their candidature with a short description of their profile to the following email address	andrea.basso@unige.it

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2.

First Name	Pietro
Last Name	Manfrinetti
Orcid ID	0000-0002-3346-5619
Other information	https://rubrica.unige.it/personale/VUZEUtp
MSCA domain	Chemistry (CHE)
Research focus area	Chemistry and physics of intermetallic compounds. Transition metals and rare-earth alloys and compounds
Department	Department of Chemistry and Industrial Chemistry - DCCI
Short description of the department/laboratory/research group	Research activity Synthesis and characterization of new and promising inorganic phases, metallic and semimetallic (rare-earths, transition metals and p-block elements based), with the aim to discover new and more outstanding materials. Investigate superconducting and magnetic compounds, as well as highly refractory, hard and/or light, alloys and materials. In particular, the research activity concerns: Study of the synthesis conditions, formation and thermodynamic stability and crystal structure of rare-earth and alkaline-earth inorganic and intermetallic compounds; investigation of possible existing relationships between their crystal chemistry and the resulting physical properties; Study of the phase equilibria in the determination of phase diagrams of binary and ternary intermetallic systems of alkaline-

	earths, lanthanides and actinides; Investigation of the physical properties of the new phases and compounds identified, up to the study, in collaboration, of their magnetic structure(s); evaluation of the more outstanding properties found in a material, to check for its potential usability towards an aimed technological application.
Candidate fellows must send their candidature with a short description of their profile to the following email address	pietro.manfrinetti@unige.it