



SAPIENZA
UNIVERSITÀ DI ROMA

DIMA DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

Newsletter - June 2019



NEWS FROM DIMA

L'Oréal UNESCO For Women in Science



On Monday, June 17, 2019, at the National Museum of Science and Technology "Leonardo Da Vinci", there was the 17th edition of the "L'Oréal-UNESCO For Women in Science" Prize. Two Sapienza researchers have won a scholarship worth 20,000 euros based on the excellence recognized for their research projects.

Silvia Celli of the Department of Physics presented the project "Mechanisms of acceleration and escape of particles from galactic astrophysical sources" while Federica Mezzani of the Department of Mechanical and Aerospace Engineering proposed the research "Minor, last generation drones for localization of anti-personnel mines".

The Mezzani project is dedicated to the localization of anti-personnel mines through a real-time map. The system involves a swarm of drones, equipped with micro-sensors capable of detecting the variation in density in the terrain of the area they fly over. The swarm is divided into two groups: a small number of master drones fly over the area quickly, identifying the presumably contaminated areas; the remaining part, flying at a lower altitude, meticulously patrol the areas indicated by the master drones. The system, with the help of conventional autonomous drones, does not involve risks of any kind, it is economical, reliable and with low environmental impact. It will allow to restore well-being to entire communities and dignity to countries devastated by the horror of war.

The "L'Oréal-UNESCO For Women in Science" program has gathered around 350 applications from all over Italy this year. The jury, after careful evaluation, selected the six most deserving researchers, who thus receive concrete support to continue their professional career, bringing a further contribution to scientific progress.





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OPPORTUNITIES FOR RESEARCH, NETWORKING AND INTERNATIONALIZATION

October 3, 2019 is scheduled forDoc, a nationwide placement initiative dedicated to PhDs and PhD students. forDoc will be destined to the meeting between recruiters and PhD candidates who have achieved or are about to achieve the title in Italy. Registrations are now open and PhD candidates, interested in participating at forDoc, can follow this link <http://www.borsadelplacement.it/it/Registration/Select> indicating the research area and some possible application clusters.

After the registration, it will be possible to select forDoc event, which can access:

- PhD students, with a maximum of 35 years, who are obtaining a doctorate in one of the universities that support the initiative, including Sapienza;
- PhDs, with a maximum of 35 years, who have obtained the title in an Italian University.

The first 30 companies that have confirmed their presence at the moment are: Aizoon; Akka Italia; Almwave; Automobili Lamborghini; Ball; Banco BPM; Berco; Bonfiglioli Riduttori; Cereal Docks; Engineering; Everel; FCA Italy; Ferrero; Filippetti; G Factor - Fondazione Golinelli; GFT TECHNOLOGIES; GlaxoSmithKline; Gruppo Euris; Kiratech; Mecaprom; Microcredito Italiano; Midac; MILKMAN; Nidec; NTT Data; Prometeia; Safilo; Salvagnini Group; SDG; Texa; Veronesi Holding. Business delegates, in previous weeks, will be able to view profiles and schedule individual 15-minute meetings with job profiles in line with their research and development activities. During the first edition, held in Verona last October, over 1,000 interviews were organized.

The one-to-one meetings are the most important element of the Forum, an extremely concrete format that has implemented new collaborations and numerous recruitment opportunities for PhDs.

