

## CALL FOR SELECTION OF TUTORS AND TRAINERS

Physical and virtual digital learning environments

'Italian Statistical Society' (Società Italiana di Statistica), jointly with the Department of Mathematics and Physics (University of Campania "Luigi Vanvitelli"), and 'Fondazione Mondo Digitale' ([www.mondodigitale.org](http://www.mondodigitale.org)) are selecting students of Mathematics and/or Data Science courses to promote and organize innovative didactic activities in schools, planned in the period from February to May 2024.

FIELDS E AREAS	REQUIRED KNOWLEDGE AND COMPETENCIES
<b>Coding Girls &amp; Data Science Lab</b> It hosts different activities aimed at developing computational thinking and learning coding at various levels, with a spotlight on data science.	Knowledge of basics in Statistics and Probabilities, R, and Python.

**OBJECTIVES:** to make aware male and female students of the opportunities deriving from STEAM (Science, Technology, Engineering, Arts & Math) studies and professions, especially through creative and conscious use of digital technologies; to foster a conscious university choice and students' interest in technical-scientific university faculties; to teach and cultivate gender equality.

**ACTIVITIES:** activities proposed are implemented by 'Fondazione Mondo Digitale' jointly with 'Italian Statistical Society' - Società Italiana di Statistica - Gruppo SDS (Statistica e Data Science).

The STEAM paths proposed, aim at firing up students' passion towards an attractive but lesser-known aspect of STEAM fields. Through playful activities, students will find out the beauty and magnificence of data processing, and how reading data represents a way to interpret the world.

The two paths alternatively activated in accordance with the Department's discretion will be 'fun' and within everyone's ability, with no need for prior knowledge. These two paths will cover:

- **Paradoxes in Statistics and Probabilities**

**Short Description:** Firstly, there will be an introduction of the basic concepts of statistics and probability. Then, students will be proposed some paradoxes in statistics and probabilities by using simple command strings in R or Python.

- **We are Data**

**Short Description:** Students will be introduced to the main data sources useful for the description of phenomena, together with quantitative tools able to give the user the condition of assessing the source's reliability. Examples consisting in a simple use of R or Python command string will be proposed.

Beyond a sound competence in teaching to students of different ages and basic knowledge, all the profiles researched must possess leadership, problem-solving, ability to work in teams, as well as being available to move autonomously throughout the entire region.

Academic and professional experiences in psychological or educational fields will be considered an asset.

For those interested in participating in the selection procedure, please fill out the following form by uploading your CV and motivational letter: <https://forms.office.com/e/7MH6xt1S4x>

The task consists in 20 pre-set hours (5 hours for the initial training, and about 15 hours of teaching in schools and universities, comprehensive of the final hackathon), in addition to some hours for autonomous preparation on remote. Students will be assigned 3 CFUs.