Small components, Big ideas: Hackathon for Tomorrow's Electronics Solutions

December 11-13, 2024
University of Valencia,
Higher Technical School of Engineering

Small components, Big ideas: Hackathon for Tomorrow's Electronics Solutions - Open Submission.

Date: 11/12/2024 - 13/12/2024
Application deadline: 10 NOVEMBER 2024

Paidea sas and STMicroelectronics, supported by the School of Engineering (University of Valencia) are proud to announce the launch of the Small components, Big ideas: Hackathon for Tomorrow's Electronics Solutions. This hackathon is supported by the Important Project of Common European Interest on Microelectronics and Communication Technologies (IPCEI ME/CT), as part of STMicroelectronics' initiatives to share its technology and innovations with various ecosystems and foster microelectronics-related activities.

General aims and scope.

As urban populations continue to grow, the development of smart cities has become crucial for creating sustainable, efficient, and liveable urban environments. Smart cities leverage advanced technologies, such as microelectronics and the Internet of Things (IoT), to enhance various aspects of urban life, including transportation, energy management, healthcare, and public safety.

The future workforce must be well-versed in working with microelectronics and capable of devising innovative solutions to meet the challenges faced by modern cities. As technology evolves, the ability to integrate microelectronic systems into urban infrastructure will be essential.

Small components, Big ideas provides invaluable opportunities for students and researchers to gain hands-on experience with microelectronics and smart city technologies.

The call is open to high school students (last year before the degree), undergraduate and graduate students, as well as doctoral candidates, to join this hackathon to showcase innovative solutions and expand their knowledge through hands-on experience. This event provides a unique opportunity for participants to be evaluated and network with scientific and business experts. The hackathon is open to all students in Spain in **December**, including Erasmus and Exchange programs students currently in the country.

Number of participants: a maximum of 50 students will be admitted to the hackathon. Participants will be divided in teams by the organiser of the event. Regardless of age or current course of study, teams will be formed to ensure all members can broaden their knowledge and gain valuable insights.

Event details: the hackathon, taking place over three days, will be a collaborative event where participants will face a series of challenges. Each team will be provided with a pre-assembled kit and will be tasked with completing their assigned mission.

Application process. The application process will consist of two stages, both integrated into the same Google Form:

- Complete the personal information section.
- Proceed to the second page to answer a questionnaire assessing skills and competencies.

Access the application form and questionnaire via the following link: **https://forms.gle/JUZahCLxu13Fxft79** The questionnaire will assist in selecting students and forming teams based on skill compatibility.

Inquire for further Information at: hackathon@paidea.it

Scientific Director - Càndid Reig