



The ESA Business Incubation Centre (BIC) Flanders in Belgium was founded in 2012 and is managed by Innotek, the knowledge centre for innovation and technology in the Province of Antwerp. Collaborating with local partners, the scientific expertise of these institutions complement the start-ups' technical development in the fields of electronics, nanotechnology, telecommunications, navigation systems, nuclear science, bio-engineering, radiology, life science, and Earth observation. ESA BIC Flanders start-ups are hosted at Innotek's two technology houses, one in Geel and the other one in Mol, with offices and laboratory space for entrepreneurs.

Magics Instruments

Radiation hard electronics (IC's and sensor systems) withstanding environments in excess of MegaGray



Website

Founded in 2015 by

- **Jens Verbeeck**

- **Ying Cao**

Incubation period

01-06-2016 to 30-11-2017



space solutions

About Magics Instruments

MAGICS Instruments specializes in the design of radiation-hardened integrated circuits. MAGICS Instruments delivers customized state-of-the-art radiation-tolerant electronics and standard components, as well as radiation qualification services on ASICs or commercial-of-the-shelf components. MAGICS Instruments provides solutions for the space industry, the nuclear industry and high-energy particle physics.

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The challenge

To withstand high radiation environments

The solution

MAGICS Instruments specializes in the design of radiation-hardened integrated circuits. MAGICS' core competence lies in the design of radiation hardened integrated circuits, more specifically electronic devices that reliably operate in nuclear environments that yield accumulated doses in excess of Mega Gray.

Intelligent remote handling

MAGICS' rad-hard technologies bring intelligence and enable sensing capabilities for remote handling tools in hazardous environments. This can greatly improve the functionality and efficiency of robotic tools.

Radiation monitoring

MAGICS' solutions introduce real time condition monitoring to nuclear plants and nuclear engineering processes, thereby address environmental health concerns and reduce human exposure risks.
