

InFotonics Center Joensuu



The InFotonics Center Joensuu is a research unit focusing on photonics and spectral color research at the University of Joensuu. The InFotonics Center Joensuu has an important role in bridging the gap between high technology research and business enterprises, and its basic tasks also include the commercialization of research-based innovations. The InFotonics Center Joensuu is located in the Joensuu Science Park.



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InFotonics Center Joensuu

International Expertise and Applied Technological Research

The InFotonics Center Joensuu brings together the expertise of the University of Joensuu in photonics, spectral color research and information technology in a way that is unique in the world. The InFotonics Center Joensuu employs top experts in the field and uses state-of-the-art measuring and research equipment that enables it to conduct business-oriented research in cooperation with business enterprises engaged in high technology.

Long-term investments in basic research in physics and computer science and intense cooperation with other internationally recognized research organizations are the cornerstones of our operations. Locally, we are an integral part of the Center of Excellence in Optics in the Joensuu region.

The InFotonics Center Joensuu develops technological solutions that rest on photonics and spectral color research to meet the product development

and production needs of its business clients. The center's optical measuring systems and computational methods can be used, for example, in surface property analysis and quality control applications. Through applied research, we also develop software for various hardware interfaces.

The InFotonics Center Joensuu is strongly involved in the commercialization of research-based business ideas and it encourages new businesses that exploit technological innovation. Our activities have contributed to the establishment of several business enterprises capitalizing on photonics and spectral color research in the Joensuu region. These enterprises continue to be our committed partners.

Areas of Expertise

Applied Research in Photonics

- Future applications for photonics

- Manufacturing technologies for optical micro- and nanostructured components
- Development of sensors based on micro- and nanophotonics

Spectral Color Research

- Spectral measurement techniques and spectral imaging
- Computational processing and analysis of spectral images
- Development of spectral software

Business Services

- Optical measurement services
- Preliminary analyses and feasibility studies
- Concept design in product development and production methods
- Projectification of research activities

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