

مركز الابتكار
الصناعي والروبوت
Industrial Innovation
and Robotics Center



Industrial Innovation & Robotics Center



| Why the University of Tabuk?

Strategic location

- After the announcement of the Kingdom's 2030 vision, the university can help foster projects in the Tabuk region.



نيوم NEOM



جامعة تبوك
University of Tabuk

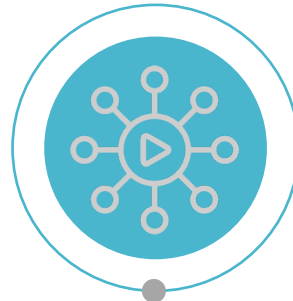
| Why the University of Tabuk?

To fulfill, and align with, the Kingdom's 2030 vision, the university has taken steps such as:



Step 1

Review its strategic plan and rebuild its academic programs



Step 2

Launching academic and research programs that meet the needs of the labor market and the requirements of the fourth industrial revolution in the Kingdom



Step 3

NEOM Training Academy to develop the knowledge and skills of the national workforce

Postgraduate programs utilize advanced technologies

The university's 22 masters programs, some of these programs focus on advanced technologies and the new economy such as:



I Faculty of computing and Information Technology

- All bachelor programs accredited by ABET
- Connecting and aligning capstone projects for master programs with the research centers directions.
 - AI and Data science master projects with **Industrial innovation and Robotics center.**
 - Information security master projects with **Sensor Networks and Cellular Systems Research Center**



I Research centers at the university of Tabuk



Sensor Networks and
Cellular Systems
Research Center



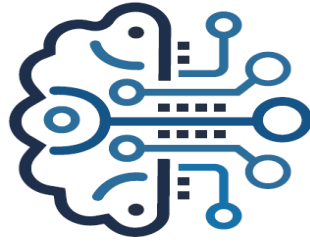
Renewable Energy &
Energy Efficiency Centre



Industrial innovation and
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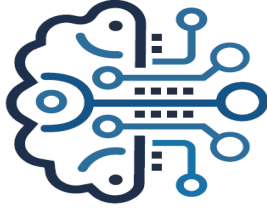
| About the IIRC (2018)

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- It provides a supportive environment for innovation, and enables innovators and entrepreneurs to develop creative ideas into products and solutions.
- It helps fulfill the Kingdom's 2030 vision by supporting sustainable development and advancing the industrial and scientific communities.
- Supporting the Kingdom's 2030 vision for technology nationalization.





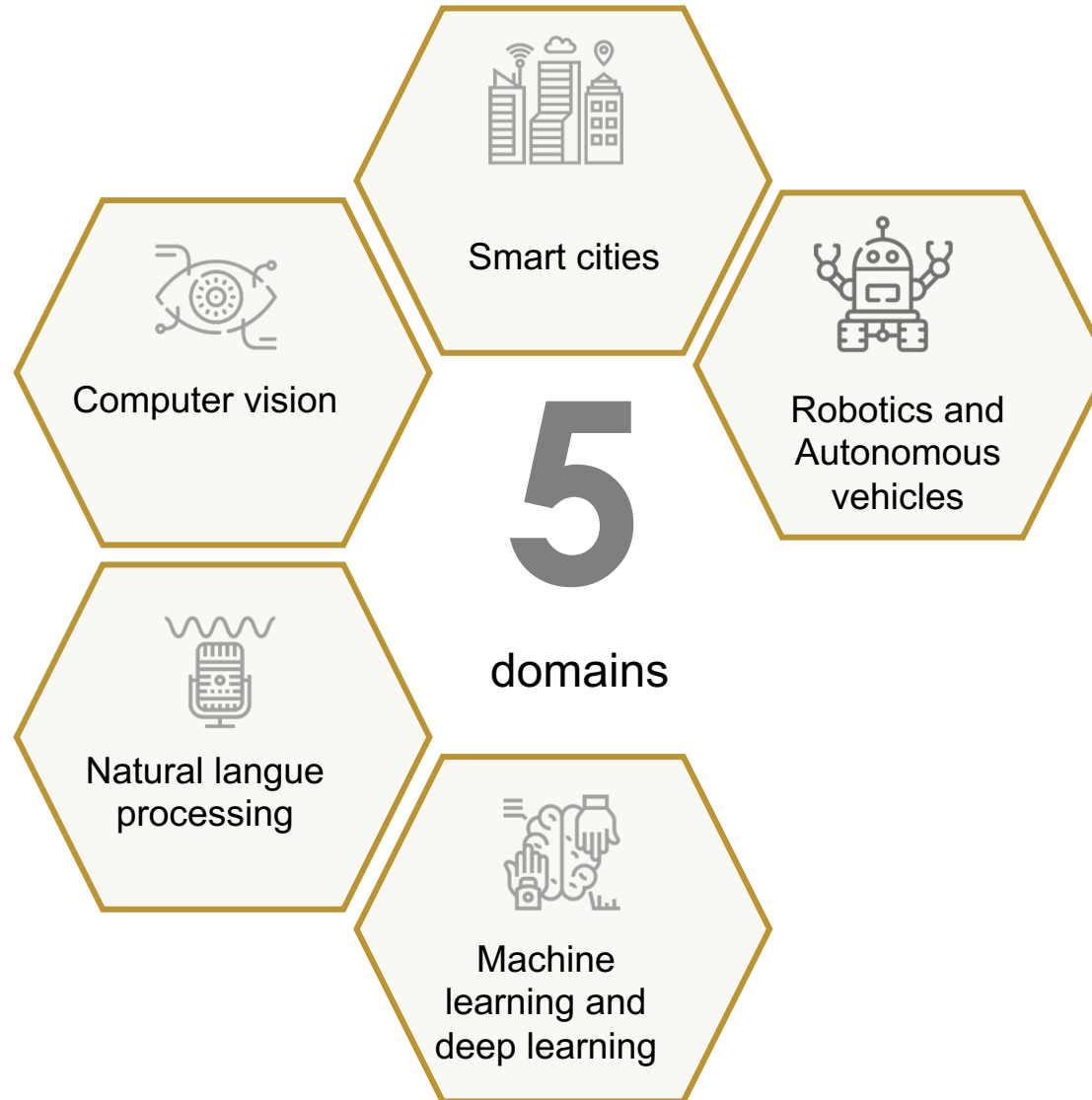
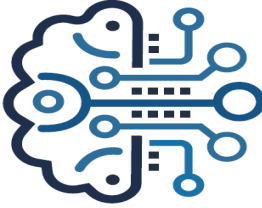
| Vision

- “Excellence and leadership in industrial and robotic innovation for a sustainable developmental life and a safe and stable environment.”

| Mission

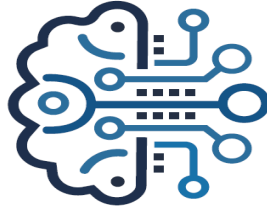
- The IIRC supports innovation. It helps creators transform ideas into high-quality products and solutions by implementing specialized research.

| Research Domains



Achievements from 2019 to 2021- summary

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1

patent

4

Covid-19
projects

21

workshops

10

projects

23

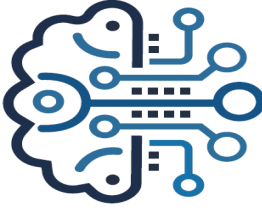
Published
journal papers
- ISI



Products

Sanibot

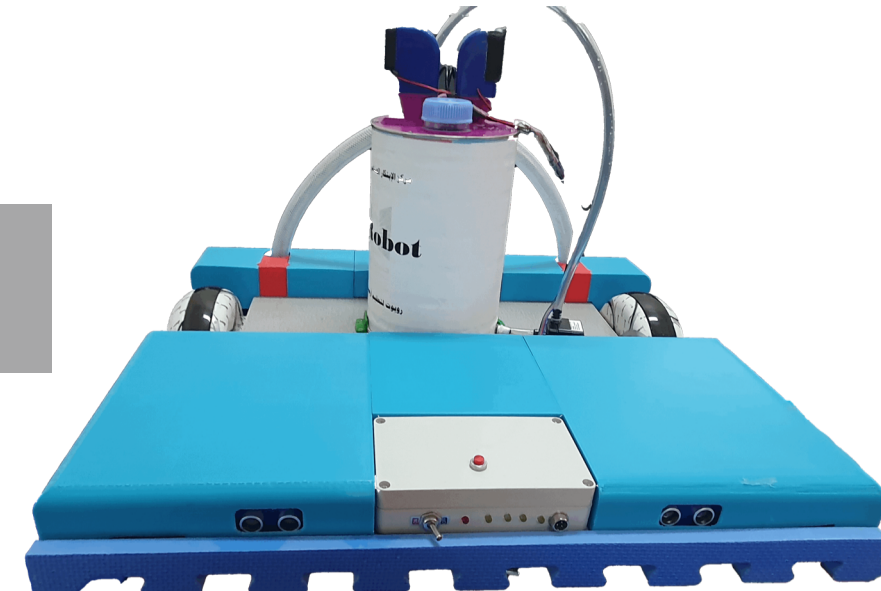
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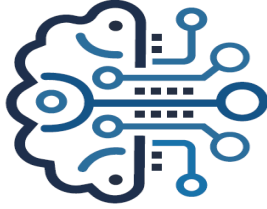
Fuction: sanitizes the carpet and floor in prayer areas (Masjid). It has the following advantages:

- It is completely autonomous.
- It employs three different sanitization methods to **maximize** its effectiveness :
 - Sanitization liquid.
 - Shortwave Ultraviolet-C light, which is known for its anti-germicidal effect.
 - Ozone gas.

We made an agreement with the Ministry of Islamic Affairs to support the idea.

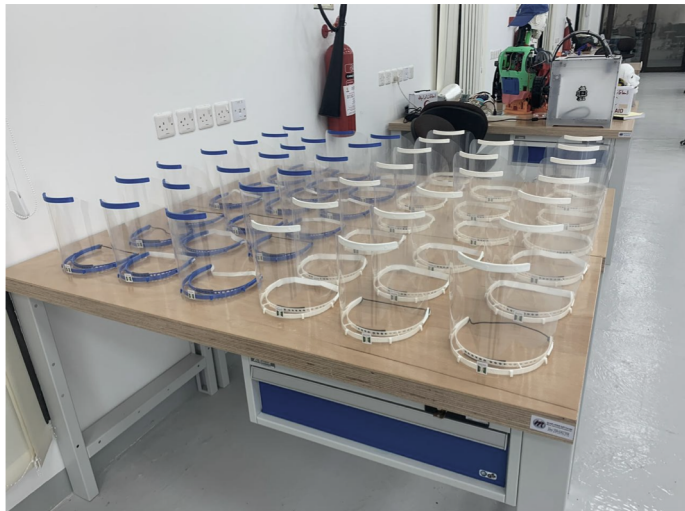


| Products



3D Face Mask

We designed and printed over 1500 3D face masks to protect medical staff from coronavirus in the Tabuk region.



Interactive Robots

- Bare3 Robot and Faris Robot
- These robotics were built from scratch in the center.
- They can be applied to different applications



Spot Micro

- It is a clone of SPOT robot of Boston Dynamics
- Applications: Surveillance, exploration, ..., etc.



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Thank you